Staff Report<br>BOARD MEETING DATE: November 15, 2016

CM/ACMks<br>Finance DASH<br>Risk Mgmt N/A HR N/A<br>Comptroller CH

DATE: $\quad$ October 19, 2016<br>TO: Board of County Commissioners<br>FROM: Kimble O. Corbridge, P.E., CFM, Sr. Licensed Engineer, Community Services Department, 328-2054, kcorbridge@washoecounty.us

THROUGH: Dwayne Smith, P.E., Division Director, Engineering and Capital Projects,
SUBJECT: Recommendation to approve a CC-213 Recertification form for the Community Rating System Annual Recertification Submittal to the National Flood Insurance Program for a continued reduction in required flood insurance policy premiums for unincorporated Washoe County residents located within designated special flood hazard areas. (All Commission Districts.)

## SUMMARY

This item requests authorization for the Chair to sign the Community Rating System (CRS) recertification submittal for a continued $15 \%$ reduction in flood insurance premiums for residents located within special flood hazard areas of unincorporated Washoe County. These are the Washoe County residents that reside within the Federal Emergency Management (FEMA) designated special flood hazard zones and are subsequently required to carry flood insurance through the National Flood Insurance Program (NFIP). The CRS program commitment is to provide additional protection to those residential properties located within these designated special hazard flood areas in exchange for reductions in flood insurance premiums.

Washoe County initiated the work required under the CRS program and became certified in October 2008. In 2016 there are over 600 residents of unincorporated Washoe County that receive a $15 \%$ reduction on their national flood insurance premiums, recognizing a total annual savings of approximately $\$ 110,000$. Each year the Engineering Division sends out a letter to each of the residents explaining what the CRS program is and the benefits derived under the program.

Washoe County Strategic Objective supported by this item: Safe, secure and healthy communities.

## PREVIOUS ACTION

November 10, 2015 - The Board of County Commissioners (Board) approved the CRS recertification submittal to the NFIP

September 23, 2014 - The Board approved the CRS recertification submittal to the NFIP.
July 9, 2013 - The Board approved the CRS Five-Year Cycle review submittal to the NFIP, which replaced the annual CRS recertification.

September 11, 2012 - The Board approved the CRS recertification submittal to the NFIP.
October 11, 2011 - The Board approved the CRS recertification submittal to the NFIP.
November 9, 2010 - The Board approved the CRS recertification submittal to the NFIP.
October 13, 2009 - The Board approved the CRS recertification submittal to the NFIP.
May 27, 2008 - The Board approved the CRS application to the NFIP.

## BACKGROUND

The NFIP allows communities which provide additional protection to properties in the FEMA floodplains the opportunity to apply for reductions in flood policy premiums. The community is given points for efforts which exceed the minimum NFIP requirements. The points are awarded in different areas which range from Floodplain Map Information to Open Space Preservation to Flood Warning Program, to name a few.

In October 2008, Washoe County was notified by NFIP that the County's CRS rating was determined to be Class 7 which allows for a $15 \%$ reduction on flood insurance premiums. The reductions became effective May 1, 2009. In 2013, the Washoe County CRS program was reviewed in the five-year cycle to re-determine the CRS rating. This review replaced the annual recertification. The CRS rating was again approved at Class 7. The County now continues to recertify the program annually to document that it continues to provide the additional protection to properties in the FEMA floodplains. Community Services staff prepares the recertification submittal and continues to work with a NFIP/CRS Specialist to provide additional protection and programs which will ensure the flood insurance policy holders receive a continued reduction in premiums.

There are over 600 residential flood insurance policies for residents within unincorporated Washoe County who receive the $15 \%$ discount as a result of the County's CRS program. This includes both residents within the special flood hazard area as well as those in the shaded Zone X areas. On average the residents located within the special flood hazard areas receive approximately $\$ 200$ per year in discounts while those that live in the shaded Zone $X$ receive approximately $\$ 50$ per year savings on their respective policies. The actual savings vary and are dependent on individual site conditions and the estimated value of the property.

The total estimated savings for unincorporated Washoe County residents under the NIFP on a yearly basis is $\$ 110,000$. Each year the Engineering Division sends out a letter to the residents to explain what the CRS program is and the value received.

Residents who live within special flood hazard areas such as flood ways or flood plains are required to carry flood insurance when they have a federally insured mortgage. Due to Washoe County maintaining the CRS program, residents that live outside of these areas may also obtain flood insurance, typically at a significantly reduced rate.

## FISCAL IMPACT

It is estimated that approximately 200 hours of Washoe County staff time is expended on an annual basis in support of this program representing a cost of less than $\$ 19,000$ per year.
However, the flood insurance policy holders in Washoe County will receive a reduction in their premiums totaling approximately $\$ 110,000$ if the County maintains a CRS Class 7 designation.

## RECOMMENDATION

It is recommended that the Board of County Commissioners approve a CC-213 Recertification form for the Community Rating System Annual Recertification Submittal to the National Flood Insurance Program for a continued reduction in required flood insurance policy premiums for unincorporated Washoe County residents located within designated special flood hazard areas.

## POSSIBLE MOTION

Should the Board agree with staff's recommendation, a possible motion would be: "Move to approve a CC-213 Recertification form for the Community Rating System Annual Recertification Submittal to the National Flood Insurance Program for a continued reduction in required flood insurance policy premiums for unincorporated Washoe County residents located within designated special flood hazard areas."

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| CID 320019 |  |  |  |
| County | Washoe |  |  |

## COMMUNITY RATING SYSTEM ANNUAL RECERTIFICATION

## CC-213 Recertification

| Date |  |  |
| :--- | :--- | :--- |
| If there are any changes or corrections to the information below, please cross out the old item and write <br> in the correction. | Chief Executive Officer | CRS Coordinator |
|  | Kitty K. Jung | Kimble Corbridge, P.E., CFM |
| Name | Chair, Washoe County Commission | Floodplain Manager |
| Title | Post Office Box 11130 <br> Reno, Nevada 89520 | Community Services Department <br> Post Office Box 11130 <br> Reno, Nevada 89520 |
| Address |  |  |
| Phone |  | (775) 328-2041 |
| E-mail |  | kcorbridge@washoecounty.us |

I hereby certify that Washoe County is continuing to implement the activities on the attached pages as credited under the Community Rating System and described in our original application to the CRS and subsequent modifications.

I hereby certify that, to the best of my knowledge and belief, we are maintaining in force all flood insurance policies that have been required of us as a condition of federal financial assistance for insurable buildings owned by us and located in the Special Flood Hazard Area (SFHA) shown on our Flood Insurance Rate Map. I further understand that disaster assistance for any community-owned building located in the SFHA is reduced by the amount of National Flood Insurance Program (NFIP) flood insurance coverage (structure and contents) that a community should be carrying on the building, regardless of whether the community is carrying a policy.

Signed (Chief Executive Officer)
Kitty K. Jung, Chair
Washoe County Commission


## COMMUNITY RATING SYSTEM ANNUAL RECERTIFICATION

Your community has been verified as receiving CRS credit for the following activities. If your community is still implementing these activities the CRS coordinator is required to put his or her initials in the blank and attach the appropriate items. The numbers refer to the activity number which is found in the CRS Coordinator's Manual.


310 We are maintaining Elevation Certificates on all new and substantially improved buildings in our Special Flood Hazard Area.


10 Attached is the permit list for new or substantially improved structures that have been completed in the last year.


310 Attached are the Elevation Certificates for new or substantially improved structures that have been completed in the last year.


310 We continue to make copies of Elevation Certificates on newer properties available at our present office location. [_] Initial here if your office address has changed in the past year. Please provide new address with this form.

等
320 We are providing basic flood information, additional FIRM information, problems not shown on the FIRM, flood depth data, special flood related hazards, historical flood information, and natural floodplain functions to inquirers. $\qquad$ ] Initial here if the office address or the manner in which requests may be submitted has changed in the last year. Please provide the new office address or manner of submittal with this form.

解-320 Attached is a copy of the outreach that publicized the credited elements of this service this year.

160 Attached is a copy of one page of the log, a letter, or other record that we kept on this service this year.

K oc 320 We are continuing to keep our FIRM updated and maintain old copies of our FIRM.
K 330 Attached are copies of all outreach projects conducted this year. Reference attachment 330 for credited outreach projects.


340 People looking to purchase floodprone property are being advised of the flood hazard through our credited hazard disclosure measures.

Lo 350 Our public library continues to maintain flood protection materials.

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## COMMUNITY RATING SYSTEM ANNUAL RECERTIFICATION

体 350 We continue to conduct an annual review and update of the information and links in our flood protection website.

360 We continue to provide flood protection advice to inquirers.
360 Attached is a copy of one page of the log, up to three letters, or other records that we kept on this service this year.

2近 360 We continue to provide on-site flood protection assistance to inquirers.
10. 360 Attached is a copy of one page of the log, up to three letters, or other records that we kept on this service this year.

$K<410$ We continue to use our additional regulatory flood data before a new development can proceed in our floodplain.

KOC420 We continue to preserve our open space in the floodplain.
K 2420 We continue to enforce our ordinance(s) for low-density zoning and/or open space incentives. [___ Initial here if you have changed the allowable density of development in any of your zoning districts, rezoned parcels in the floodplain or changed your open space incentives. Attach a copy of the amendment.

Kर्टा 430 We continue to enforce the following regulations in our floodplain: (development limitations, freeboard for new and substantial improvement construction, foundation protection, cumulative substantial improvement, local drainage protection. $\quad]$ Initial here if you have amended your floodplain regulations. Attach a copy of the amendment.
Ken We continue to enforce our current building code. $\square$ ] Initial here if you have amended your building code. Attach a copy of the amendment.

160430 We continue to employ those staff credited for attaining their CFM, and those who have attended the credited training courses. $\qquad$ ] Initial here if your staff has changed and attach a statement as to the staffing changes.

K S 440 We continue to use and update our flood data maintenance system on an annual basis as needed.

K 2450 We continue to enforce the provisions of our zoning, subdivision and building codes as

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they pertain to erosion and sediment control and water quality.

## R 502 We currently have <br> $\square$ <br> repetitive loss properties and send our notice to 8 properties in the repetitive loss areas.

502 Attached is a copy of this year's notice on property protection, flood insurance and financial assistance that we sent to our repetitive loss areas.

510 Attached is a copy of our floodplain management plan's annual progress report on the Washoe County Multi-Hazard Mitigation Plan adopted on (December 14, 2010 and/or a copy of the annual progress report on the recommendations of the repetitive loss area analyses. Note: An updated floodplain management plan is due on or before October 1, 2015.

510 We have provided copies of this progress report to our governing board, local media, and the state NFIP Coordinating office.
$K 02510$ Attached is the updated floodplain management plan or repetitive loss area analyses, and proof of local adoption.
f6e 520 We continue to maintain as open space the lots where buildings were acquired or relocated out of the floodplain. [ ] Initial here if there have been any changes (additions or deletions) to the parcels credited as open space. Attach a description of those changes.

K 540 We continue to implement our drainage system maintenance program.
Ne 540 Attached is a copy of a typical inspection report and a copy of the record that shows that any needed maintenance was performed on the credited components of our drainage system.

5840 We continue to enforce our stream dumping regulations.
540 Attached is a copy of this year's outreach project that explained our stream dumping regulations. [___] Initial here if the information is included in your annual program for public information. Mark the attachment to Activity 330 to show where your stream dumping regulations are explained. [__ Initial here if you publicize the regulations with "no dumping" signs instead of through an outreach project.


630 Attached is quarterly documentation that credited dams have been inspected, equipment has been tested, and annual outreach conducted.
$f 680$ Attached is a copy of this year's outreach document that told people about the dam failure hazard and ways to protect themselves from flooding. 80 Initial here if the information is included in your annual outreach project to the community or to flood plain properties, or is a

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part of your program for public information. Mark the attachment to Activity 330 to show where the dam failure hazard and ways to protect themselves from flooding are explained.

630 We have completed our annual update of the names and telephone numbers of the operators of all critical facilities affected by flooding.

## Additional Comments:

Attachments:

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COMMUNITY RATING SYSTEM ANNUAL RECERTIFICATION

| CRS Program Data Table | A. In the SFHA | B. In a regulated floodplain outside the SFHA | C. In the rest of the community |
| :---: | :---: | :---: | :---: |
| 1. Last report's number of buildings in the SFHA (bSF) (line 6, last report) | 3543 |  |  |
| 2. Number of new buildings constructed since last report | +21 | n.a. | n.a. |
| 3. Number of buildings removed/demolished since last report | -0 | n.a. |  |
| 4. Number of buildings affected by map revisions since last report (+ or - ) | 0 | n.a. |  |
| 5. Number of buildings affected by corporate limits changes (+ or - ) | -1 | n.a. |  |
| 6. Current total number of buildings in the SFHA (bSF) (total lines 1-5) | 3563 |  |  |
| 7. Number of substantial improvement/damage projects since last report | 0 | n.a. |  |
| 8. Number of repetitive loss properties mitigated since last report | 0 | n.a. | n.a. |
| 9. Number of LOMRs and map revisions (not LOMAs) since last report | 0 |  |  |
| 10. Acreage of the SFHA (aSFHA) as of the last report (line 13, last report) | 22,011 |  |  |
| 11. Acreage of area(s) affected by map revisions since last report (+ or -) | 0 | n.a. |  |
| 12. Acreage of area(s) affected by corporate limits changes (+ or - ) | -417 | n.a. |  |
| 13. Current acreage of the SFHA (aSFHA) (total lines 10-12) | 21,594 |  |  |
| 14. Primary source for building data: Permits Plus data reporting |  |  |  |
| 15. Primary source for area data: GIS data |  |  |  |
| 16. Period covered: October 1, 2015 to June 30, 2016 | Current FIRM date March 16, 2009 |  |  |
| If available, the following data would be useful: |  |  |  |
| 17. Number of new manufactured homes installed since last report | 4 | n.a. | n.a. |
| 18. Number of other new 1-4 family buildings constructed since last report | 11 | n.a. | n.a. |
| 19. Number of all other buildings constructed/installed since last report | 6 | n.a. | n.a. |

Comments: (Please note the number of the line to which the comment refers.)

## 1. Number from last year was incorrect. 3543 is the correct number

10. Area of SFHA are 100-year flood zones excluding bodies of water greater than 10AC, federal lands, state lands, agriculture lands, open spaces and Zone D (Lake Tahoe, Pyramid Lake, etc.).

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## COMMUNITY RATING SYSTEM ANNUAL RECERTIFICATION

## Instructions for CRS Program Data Table

At the first verification visit after the 2013 CRS Coordinator's Manual takes effect, ONLY LINES 6 AND 13 NEED TO BE COMPLETED. These lines form the baseline data about the number of buildings and area of the SFHA for when the table is completed as part of the next annual recertification. The "period covered" entered in line 16 is the date that lines 6 and 13 are first completed.

The entire table is completed at all subsequent annual recertifications and cycle verification visits. The information in lines 6 and 13 from the last report is transferred to lines 1 and 10 in the next report.

## Instructions for the Columns

Column A numbers are for the SFHA (the A and V Zones shown on the Flood Insurance Rate Map) (FIRM)). Use the FIRM currently in effect, not a draft or pending revision.

Column B is completed only if the community receives CRS credit for regulating floodplain development outside the SFHA under Activity 410 (Floodplain Mapping) or Activity 430 (Higher Regulatory Standards).
Column C numbers help relate what happens in the floodplain to what is happening in the rest of the community.

Enter " 0 " if there are no numbers to report for this period. Do not leave a cell blank. Do not fill in the shaded boxes.

## Instructions for the Lines

Lines 1-7 deal with buildings.

- Section 301.a of the CRS Coordinator's Manual defines what constitutes a "building" and lists examples of structures that are not counted as "buildings" by the CRS.
- Section 302.a of the CRS Coordinator's Manual describes how the CRS counts buildings. For example, accessory structures are not counted.
- As noted in Section 302.a, to determine building counts, communities may use any method that yields reasonably good estimates of the number of buildings. Examples of acceptable methods are listed in Section 302.a. Precision is less important for large numbers. For example, the impact of the numbers will not change much if there are 10,000 buildings or 10,100 buildings.
- If a building is out of the SFHA, but in a parcel that is partly in the SFHA, it is not counted in column A-In the SFHA.
- In line 14, note how the building counts were obtained or estimated. Use the comments area, if needed.

Line 4 refers to map revisions. These include physical map revisions, Letters of Map Revision (LOMR), and Letters of Map Amendment (LOMA). If a building is removed from the SFHA by FEMA through a LOMA, but the community still administers its floodplain management regulations on the property, the building should not be included in the line 4 count in column A-In the SFHA. However, communities that still regulate areas removed by LOMAs can receive credit under Activities 410 or 430 . If the community is receiving such credit, the building should be counted under column $B$-In a regulated floodplain outside the SFHA.

Line 7 is for the total number of buildings that were substantially improved plus the number of buildings that were substantially damaged during the period covered.

Lines 10-13 deal with areas.

- Section 403.e of the CRS Coordinator's Manual discusses calculating areas for CRS purposes.

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## COMMUNITY RATING SYSTEM ANNUAL RECERTIFICATION

- Section 403.e notes that communities "should not spend an inordinate amount of time measuring areas." As with buildings, communities may use any method that yields reasonably good estimates. Examples of acceptable approaches are listed in Section 403.e.
- Line 13 asks for the current acreage of the SFHA. The best source for this number is a GIS layer that shows the SFHA. If the community does not have GIS, the county, regional agency, or state NFIP
- mapping office may have SFHA layers and may be able to provide the data. If the community has a relatively recent FIRM, the study contractor or consulting engineer may have the data.
- In line 15, note how the area calculations were obtained or estimated. Use the comments area, if needed.

Lines 17-19 are voluntary, if the numbers are readily available.

- Line 17 includes replacing an existing manufactured home with a new one. The newly placed manufactured home is counted as a new, post-FIRM, building.
- The total of lines $17-19$ should equal the value entered in line 2.


## Community Rating System

Activity 310 - Elevation Certificates

## Inspection Statistics Report for FEMA Inspections Only

Project Completion Date Range: 09/01/2015 through 06/30/2016

| C-mpiype; BLBRRES, \%rex |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Sub Type |  |  |  |  |
| RGAR |  |  |  |  |
| Building Type |  |  |  |  |
| Permit Number: 14-2347 | APN: 14822230 | Status: FINAL | CofO/Finaled Date: 04/1 | 016 |
| Permit Number: 15-1940 | APN: 08050242 | Status: FINAL | CofO/Finaled Date: 11 | 015 |
| Permit Number: 14-1555 | APN: 04429202 | Status: FINAL | CofO/Finaled Date: 12/1 | 015 |
| RSAD $\quad$ Total Count for Subtyde: RGAR 3 |  |  |  |  |
|  |  |  |  |  |
| Building Type |  |  |  |  |
| Permit Number: 15-2356 | APN: 05105202 | Status: FINAL | CofO/Finaled Date: 01/0 | 016 |
| Permit Number: 15-0768 | APN: 04072016 | Status: FINAL | CofO/Finaled Date: 06/ | 016 |
| Permit Number: 16-0150 | APN: 08028201 | Status: FINAL | CofO/Finaled Date: 06/1 | 016 |
| RSNW $\quad$ Total Count for Subtyde: RSAD 3 |  |  |  |  |
|  |  |  |  |  |
| Building Type Single Family Dwelling |  |  |  |  |
| ( Permit Number: 15-1811 | APN: 07750006 | Status: COFO | CofO/Finaled Date: 02/1 | 016 |
| Permit Number: 14-2526 | APN: 16225107 | Status: COFO | CofO/Finaled Date: $11 / 1$ |  |
| Permit Number: 14-2989 | APN: 16225203 | Status: COFO | CofO/Finaled Date: 12/1 | 015 |
| Permit Number: 15-0419 | APN: 08050242 | Status: COFO | CofO/Finaled Date: 10/2 | 015 |
| Permit Number: $15-0516$ | APN: 05011405 | Status: COFO | Cofo/Finaled Date: 12/3 | 015 |
| Permit Number: 15-1809 | APN: 07750002 | Status: COFO | CofO/Finaled Date: 01/1 | 016 |
| Permit Number: 15-1810 | APN: 07750009 | Status: COFO | Cofo/Finaled Date: 05/1 | 016 |
| Permit Number: 15-2031 | APN: 07752011 | Status: COFO | CofO/Finaled Date: 01/2 | 016 |
| Permit Number: 15-2132 | APN: 07751009 | Status: COFO | Cofo/Finaled Date: 03/0 | 016 |
| Permit Number: 15-2958 | APN: 07750019 | Status: COFO | Cofo/Finaled Date: 03/2 | 016 |
| Permit Number: 15-3018 | APN: 07750017 | Status: COFO | CofO/Finaled Date: 04/2 | 016 |
|  |  | Total Count for Subtvoe: RSNW |  | 11 |
|  |  | Total Coun | r Comp Type: BLD-RES | 17 |

Comp Type MOBLLE

| Sub Type |  |  |  |
| :---: | :---: | :---: | :---: |
| RENO |  |  |  |
| ilding Type |  |  |  |
| Permit Number: 14-2979 | APN: 08504243 | Status: FINAL | CofO/Finaled Date: 09/14/2015 |
| Permit Number: 15-3505 | APN: 08050354 | Status: FINAL | CofO/Finaled Date: 02/05/2016 |
| Permit Number: 15-3527 | APN: 08515219 | Status: FINAL | Cofo/Finaled Date: 12/24/2015 |
| Permit Number: $\mathbf{1 5 - 1 8 3 6}$ | APN: 02103010 | Status: FINAL | CofO/Finaled Date: 11/16/2015 |
|  |  | Tota | unt for Subtyde: RENO 4 |

# ELEVATION CERTIFICATE 

Important: Read the instructions on pages 1-9.


## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION



B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
$\square$ FIS Profile

- FIRM
$\square$ Community Determined
$\square$ Other/Source:
B11. Indicate elevation datum used for BFE in Item B9:
$\square$ NGVD 1929
【 NAVD 1988
$\qquad$
B11. Indicate elevation datum used for BFE in Item B9: $\square$ NGVD $1929 \quad \boxed{\text { NAD }} 1988 \quad \square$ Other/Source:
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? $\qquad$ $\square$ Yes $\triangle N$ Designation Date: $\qquad$ $\square$ CBRS
$\square$ IPA
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)
C1. Building elevations are based on:
$\square$ Construction Drawings*
Building Under Construction*
区 Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.
C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2. a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: $\qquad$ Vertical Datum:
Indicate elevation datum used for the elevations in items a) through h) below. $\square$ NKVD $1929 \square$ NAVD $1988 \square$ Other/Source $\qquad$ Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)
b) Top of the next higher floor
c) Bottom of the lowest horizontal structural member (V Zones only)
d) Attached garage (top of slab)
e) Lowest elevation of machinery or equipment servicing the building
(Describe type of equipment and location in Comments)
f) Lowest adjacent (finished) grade next to building (LAG)
g) Highest adjacent (finished) grade next to building (HAG)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support


| $\square$ feet | $\square$ meters |
| :--- | :--- |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.
$\square$ Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a $\square$ Check here if attachments. licensed land surveyor?
Q Yes
$\square$ No

Certifier's Name HARLAN KING
License Number PLS 5665

| OWNER | Company Name | HARLAN KING \& ASSOCIATES |  |
| :--- | :--- | :--- | :--- |
| Address 7490 LONGLEY LANE \#B | City RENO | State NV | ZIP Code 89511 |
| Signature | Date $3 / 7 / 16$ | Telephone | $775-852-1777$ |



## ELEVATION CERTIFICATE, page 2

| IMPORTANT: In these spaces, copy the corresponding information from Section A. | FOR INSURANCE COMPANY USE |
| :--- | :--- |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <br> 4976 Nestle Court |  |
| City Washoe County $\quad$ State NV ZIP Code 89511 | Policy Number: |

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.
Comments 1.642 sf detached garage slab varies between $0.5^{\prime} \& 1.0^{\prime}$ above HAG. 2 engineered flood vents $=247 \mathrm{sq}$. in.

Date 3/7/16
SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)
For Zones AO and $A$ (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is $\underline{0} . \underline{\square} \quad$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is $1.0 \quad \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the LAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages $8-9$ of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is $\underline{0} . \underline{\square}$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E3. Attached garage (top of slab) is $\underline{0} . \underline{\square}$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is $1.0 \boxtimes$ feet $\square$ meters $\boxtimes$ above or below the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\boxtimes$ Yes $\square$ No $\square$ Unknown. The local official must certify this information in Section G.

## SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.
(arty Owner's or Owner's Authorized Representative's Name Harlan King

| Address 7490 Longley Lane \#B | City Reno |
| :--- | :--- |
| Signature | Date $3 / 7 / 16$ |

$\square$ Check here if attachments.

## SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable items) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter meters.
G1. $\square$ The information in Section $C$ was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square$ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
G3. $\square$ The following information (Items G4-G10) is provided for community floodplain management purposes.


Comments

## Building Photographs

See Instructions for Item A6.
IMPORTANT: In these spaces, copy the corresponding information from Section A.
FOR INSURANCE COMPANY USE

| D. iliding Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. |
| :--- |
| iNestle Court |
| Lry Washoe County $\quad$ State NV ZIP Code 89511. |

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.


REAR/RT SIDE


## elevation certificate, page 4 Building Photographs

Continuation Page

IMPORTANT: In these spaces, copy the corresponding information from Section A.
FOR INSURANCE COMPANY USE Policy Number:

Company NAIC Number:

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

U.S. DEFARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program

ELEVATION CERTIFICATE
Important: Read the instructions on pages 1-9.
SECTION A - PROPERTY INFORMATION

| A1. Building Owner's Name Tom and Karen Yantis |  |
| :--- | :--- |
| 3uilding Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <br> 4-- Cameo Court |  |
| City Reno | State Nv ZIP Code 89506 |


| Part |
| :--- |
| OMB No. 1660-0008 <br> Expiration Date: July 31, 2015 <br> FOR INSURANCE COMPANY USE <br> Policy Number: <br> Company NAIC Number: |

OMB No. 1660-0008
Expiration Date: July 31, 2015
FOR INSURANCE COMPANY USE Policy Number:

Company NAIC Number

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 79-A of Record of Survey Map No. 5056 - A.P.N. 080-502-42

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Detached Garage
A5. Latitude/Longitude: Lat. N/A Long. N/A Horizontal Datum: $\square$ NAD $1927 \square$ NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.
A7. Building Diagram Number 1B
A8. For a building with a crawlspace or enclosure(s):
A9. For a building with an attached garage
a) Square footage of crawlspace or enclosure(s)
$\underline{264}$
$s q$ ft
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade $\underline{2}$
c) Total net area of flood openings in A8.b 256
256 sq in
d) Engineered flood openings?
® Yes
$\square$ No
a) Square footage of attached garage N/A sq ft
b) Number of permanent flood openings in the attached garage
within 1.0 foot above adjacent grade N/A
c) Total net area of flood openings in A9.b N/A sq in
d) Engineered flood openings? $\square$ Yes $\square$ No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

C1. Building elevations are based on:
Construction Drawings*
$\square$ Building Under Construction*
© Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.
C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.
Benchmark Utilized: Assumed - see section D
Vertical Datum:
Indicate elevation datum used for the elevations in items a) through h) below. $\square$ NGVD $1929 \square$ NAVD $1988 \square$ Other/Source:
Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)


| $\square$ feet | $\square$ meters |
| :--- | :--- |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. $I$ understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.
$\square$ Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a
$\square$ Check here if attachments.
licensed land surveyor?Yes
【 No

| Certifier's Name Lee H. Smithson |  | License Number PLS 5097 |  |
| :---: | :---: | :---: | :---: |
| /ice President | Company Name Tri State Surveying, Ltd. |  |  |
| Address 1925 East Prater Way | City Sparks | State Nv | ZIP Code 89434 |
| Signature 010 ?atly | Date October 28, 2015 | Telephone | 775-358-9491 |



## ELEVATION CERTIFICATE, page 2

IMPORTANT: In these spaces, copy the corresponding information from Section A.
FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 442 Cameo Court - Garage

State Nv ZIP Code 89506

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.
Comments Basis of Elevations was assumed using the estimated elevation at the northwest corner of the proposed building as 4339.58 . The plan was prepared by D.L. Blake Residential Designer and dated February 16, 2015. A reference bench mark was set at the site at the Finish Floor of the proposed garage elevation of 4340.8 . This reference bench mark will be utilized in the construction, setting of the floor, to insure that the finish floor will be set in compliance with said plan.

## Signature <br> Date October 28, 2015 <br> SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is $\underline{0} . \underline{2} \quad$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is $\underline{0} . \underline{2} \quad$ feet $\square$ meters $\boxtimes$ above or $\square$ below the LAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A ltems 8 and/or 9 (see pages $8-9$ of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is N/A. $\square$ feet $\square$ meters $\square$ above or $\square$ below the HAG.
E3. Attached garage (top of slab) is N/A. $\square$ feet $\square$ meters $\square$ above or $\square$ below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is 1.0 feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\square$ Yes $\square$ No $\square$ Unknown. The local official must certify this information in Section G.

## SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.
Adress 1925 East Brater Way

Comments The Engineered Flood Vents (Smart Vents) to be installed. 2 Vents that are rated to cover 200 Square Feet of area per Vent for a total of 400 Square Feet of area coverage. Per the residential drawings, see Section D,

Check here if attachments.

## SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter meters.
G1. The information in Section $C$ was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square$ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
G3. $\square$ The following information (Items G4-G10) is provided for community floodplain management purposes.


# Building Photographs 

See Instructions for Item A6.
IMPORTANT: In these spaces, copy the corresponding information from Section A.

FOR INSURANCE COMPANY USE
Policy Number

Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.


Building Photographs
Continuation Page

IMPORTANT: In these spaces, copy the corresponding information from Section A.
FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. Cameo Court - Garage

Reno
State Nv ZIP Code 89506
Policy Number:

Company NAIC Number:

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.


USS. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

## ELEVATION CERTIFICATE

IMPORTANT: Follow the instructions on pages 1-9.

OMB No. 1660-0008
Expiration Date: July 31, 2015



B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:
$\square$ FIS Profile $\triangle$ FIRM $\square$ Community Determined
$\square$ Other/Source:

B11. Indicate elevation datum used for BFE in Item B9: $\square$ NGVD 1929 XNAVD $1988 \quad \square$ Other/Source:
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? $\square$ Yes $\square$ No Designation Date: $\qquad$ - 1 / $\square$ CARS
$\square$ ORA

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: $\quad \square$ Construction Drawings* $\quad \square$ Build
*A new Elevation Certificate will be required when construction of the building is
C 2 . Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR,
C 2 .a-h below according to the building diagram specified in Item A7. In Puerto
Benchmark Utilized: City of Reno BM1704
Indicate elevation datum used for the elevations in items a) through h) below.
Datum used for building elevations must be the same as that used for the BFE.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor).
b) Top of the next higher floor
c) Bottom of the lowest horizontal structural member (V Zones only)
d) Attached garage (top of slab)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)
f) Lowest adjacent (finished) grade next to building (LAG)
g) Highest adjacent (finished) grade next to building (HAG)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. i understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. $\square$ Check here if comments are provided on back of form. $\square$ Check here if attachments.

Were latitude and longitude in Section A provided by a licensed land surveyor? $\boxtimes$ Yes $\square$ No



## ELEVATION CERTIFICATE, page 2

IMPORTANT: In these spaces, copy the corresponding information from Section A.

| FOR INSURANCE COMPANY USE |  |
| :--- | :--- |
| Policy Number: |  |
|  | Company NAIC Number: |

Reno NV 89502

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of thls Elevation Certlicate for (1) community official, (2) insurance agent/company, and (3) building owner.
Comments The flood vents are "smart vent model 1540-510", they have a certified coverage of $200 \mathrm{S.F}$. per its spec. sheet. The first floor (elevation 4392 1) is a crawl space. The entire residential area is on the next higher floncelevation 4400.1 constuction is almost compleate. All flood vents were installed and finished floor elevation will not change.


Date 12/03/2015
SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)
For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sactions A, B, and C.
For ltems E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawispace, or enclosure) is na_ nan $\square \square$ feet $\square$ meters above or $\square$ below the HAG. b) Top of bottom floor (including basement, crawlspace, or enclosure) is na n_ $\square$ feet $\square$ meters $\square$ above or $\square$ below the LAG. E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A liems 8 and/or 9 (see pages 8-9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is $\quad$ na $\quad \square$ feet $\square$ meters $\square$ above or $\square$ below the HAG. E3. Attached garage (top of slab) is
E4. Top of platform of machinery and/or equipment servicing the building is
$\qquad$ $\square$ feet $\square$ meters $\square$ above or $\square$ below the HAG.
$\square$ feet $\square$ meters $\square$ above or $\square$ below the HAG.
$\square$ feet $\square$ meters $\square$ above or $\square$ below the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\square$ Yes $\square$ No $\square$ Unknown. The local officlal must certify this information in Section $G$.

## SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections $A, B$, and $E$ are correct to the best of my knowledge.
Property Owner or Owner's Authorized Representative's Name Charies D Church

| Address 555 Holcomb Ave. | ${ }^{\text {City }}$ Reno | State NV ZIP Code 89502 |
| :---: | :---: | :---: |
| Signature | Date 12/03/2015 | Teiephone 775-828-5004 |

$\square$ Check here if attachments.

## SECTION G - COMMURITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections $\mathrm{A}, \mathrm{B}, \mathrm{C}$ (or E ), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in ltems G8-G10. In Puerto Rico only, enter meters.
G1. $\square$ The information in Section $C$ was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to cerify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square$ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO
G3. $\square$ The following information (Items G4-G10) is provided for community floodplain management purposes.


Comments

See Instructions for Item A6.


If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.

## Front view



Rear view

U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

## $15-0168$

ELEVATION CERTIFICATE
Important: Read the instructions on pages 1-9.

OMB No. 1660-0008
Expiration Date: July 31, 2015


## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION



## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:
$\square$ Construction Drawings*
$\square$ Building Under Construction*
Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.
C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete ltems C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.
Benchmark Utilized: $\qquad$ Vertical Datum:
Indicate elevation datum used for the elevations in items a) through h) below. $\square$ NGVD $1929 \square$ NAVD $1988 \square$ Other/Source: Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)
NA.
$\square$ feet
$\square$ meters
b) Top of the next higher floor
c) Bottom of the lowest horizontal structural member (V Zones only)
NA.$\square$ feet
$\square$ feet
$\square$ feet
$\square$ feet
$\square$ meters
d) Attached garage (top of slab)
e) Lowest elevation of machinery or equipment servicing the building
NA.
$\square$ meters
(Describe type of equipment and location in Comments)
NA.
-
$\square$ meters
$\square$ feet $\square$ meters
f) Lowest adjacent (finished) grade next to building (LAG)
NA.
g) Highest adjacent (finished) grade next to building (HAG)
NA.
NA.
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support$\square$ meters

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Q Check here if comments are provided on back of form.
$\square$ Check here if attachments.

Were latitude and longitude in Section A provided by a licensed land surveyor? $\boxtimes$ Yes
$\square$ No
License Number PLS 5506
Company Name LANDMARK SURVEYING

| Address 2548 RAMPART TERRACE | City RENO | State NV | ZIP Code 89519 |
| :--- | :--- | :--- | :--- |
| Signature | Date 02/17/2016 | Telephone 775-324-0904 |  |



OMB No．1660－0008
Expiration Date：July 31， 2015


## SECTION B－FLOOD INSURANCE RATE MAP（FIRM）INFORMATION

| B1．NFIP Community Name \＆Community Number <br> Washoe County－ 320019 | B2．County Name <br> Washoe |  | B3．State <br> Nevada |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| B4．Map／Panel Number <br> 32031C2850 | B5．Suffix <br> G | B6．FIRM Index Date <br> June 18， 2013 | B7．FIRM Panel <br> Effective／Revised Date <br> March 16，2009 | B8．Flood <br> Zone（s） <br> AE | B9，Base Flood Elevation（s）（Zone <br> AO，use base flood depth） <br> 4924 |

B10．Indicate the source of the Base Flood Elevation（BFE）data or base flood depth entered in Item B9．
$\square$ FIS Profile
－FIRM
$\square$ Community Determined
$\square$ Other／Source：

B11．Indicate elevation datum used for BFE in Item B9：$\square$ NGVD 1929
$\boxtimes$ NAVD $1988 \square$ Other／Source： $\qquad$
B12．Is the building located in a Coastal Barrier Resources System（CBRS）area or Otherwise Protected Area（OPA）？ Jesignation Date： $\qquad$ $\square$ CBRS
$\square$ OPA

## SECTION C－BUILDING ELEVATION INFORMATION（SURVEY REQUIRED）

C1．Building elevations are based on：
$\square$ Construction Drawings＊
$\square$ Building Under Construction＊
『 Finished Construction
＊A new Elevation Certificate will be required when construction of the building is complete．
$C 2$ ．Elevations－Zones A1－A30，AE，AH，A（with BFE），VE，V1－V30，V（with BFE），AR，AR／A，AR／AE，AR／A1－A30，AR／AH，AR／AO．Complete Items C2．a－h below according to the building diagram specified in Item A7．In Puerto Rico only，enter meters．
Benchmark Utilized：W．C．GPS Pt．－See Sec．D Vertical Datum： 1988
Indicate elevation datum used for the elevations in items a）through h）below．$\square$ NGVD $1929 \boxtimes$ NAVD $1988 \square$ Other／Source： Datum used for building elevations must be the same as that used for the BFE．

Check the measurement used

| a）Top of bottom floor（including basement，crawlspace，or enclosure floor） | 4924.6 | $\triangle$ feet | $\square$ meters |
| :---: | :---: | :---: | :---: |
| b）Top of the next higher floor | 4927．35 | $\triangle$ feet | $\square$ meters |
| c）Bottom of the lowest horizontal structural member（V Zones only） | N／A． | $\square$ feet | $\square$ meters |
| d）Attached garage（top of slab） | N／A． | $\square$ feet | $\square$ meters |
| e）Lowest elevation of machinery or equipment servicing the building （Describe type of equipment and location in Comments） | 4927．35 | 区 feet | $\square$ meters |
| f）Lowest adjacent（finished）grade next to building（LAG） | 4925.0 | －feet | $\square$ meters |
| g）Highest adjacent（finished）grade next to building（HAG） | 4925.5 | 区 feet | $\square$ meters |
| h）Lowest adjacent grade at lowest elevation of deck or stairs，including structural support | N／A． | $\square$ feet | $\square$ meters |

## SECTION D－SURVEYOR，ENGINEER，OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor，engineer，or architect authorized by law to certify elevation information．I certify that the information on this Certificate represents my best efforts to interpret the data available． $I$ understand that any false statement may be punishable by fine or imprisonment under 18 U．S．Code，Section 1001.
$\square$ Check here if comments are provided on back of form．
$\square$ Check here if attachments．

Were latitude and longitude in Section A provided by a
licensed land surveyor？$\square$ Yes $\boxtimes$ No

Cortifier＇s Name Lee H．Smithson
License Number PLS 5097

| Vice President | Company Name | Tri State Surveying，Ltd． |  |
| :--- | :--- | :--- | :--- | :--- |
| Address 1925 Epst Prater Way | City Sparks | State Nv | ZIP Code 89434 |
| Signature |  | Telephone | 775－358－9491 |

IMPORTANT: In these spaces, copy the corresponding information from Section A.
FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 10510 Redpine Road
Citv Reno
State Nv ZIP Code 89506

Policy Number:

Company NAIC Number:

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.
Comments Basis of Elevations was based on the Washoe County GPS Control Network Point "N23SM01203", elevation taken as 4923.33 (NAVD'88). A reference bench mark was set at the site at an elevation of 4921.18. This reference bench mark will be utilized in the construction, setting of the floorelevation (crawl space) and to insure that the finish floor will be set in compliance with the design plan for the project.


## SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is $\qquad$
$\square$ feet et $\square$ meters
$\qquad$ above or $\square$ below the HAG.
$\qquad$ b) Top of bottom floor (including basement, crawlspace, or enclosure) ismetersabove or $\square$ below the LAG.
E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages $8-9$ of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is $\qquad$ feet $\square$ feet $\square$ meters $\square$ $\square$ below the HAG.
E3. Attached garage (top of slab) is $\qquad$ $\square$ fee $\qquad$ metersabove orbelow the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is $\square \square \square$ feet $\square$ meters $\square$ above or below the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\square$ Yes $\square$ No $\square$ Unknown. The local official must certify this information in Section G.

## SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Tone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.
ty Owner's or Owner's Authorized Representative's Name Lee H. Smithson - Representative

| Address 1925 East Prater Way | City Sparks |
| :--- | :--- |
| Signature | Date June 13,2016 |

## SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections $\mathrm{A}, \mathrm{B}, \mathrm{C}$ (or E ), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter meters.
G1. $\square \quad$ The information in Section $C$ was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square \quad$ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
G3. $\square$ The following information (Items G4-G10) is provided for community floodplain management purposes.


## elevation Certificate, page 3 Building Photographs

## See Instructions for Item A6.

IMPORTANT: In these spaces, copy the corresponding information from Section A.

| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. ) Redpine Road |  |  | Policy Number: |
| :---: | :---: | :---: | :---: |
| Luy Reno | State Nv | ZIP Code 89506 | Company NAIC Number: |

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.


## eLEVATION CERTIFICATE, page 4 Building Photographs

Continuation Page
IMPORTANT: In these spaces, copy the corresponding information from Section A.
FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. Policy Number:
Cameo Court
State Nv ZIP Code 89506
Company NAIC Number:

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program
elevation certificate Parl
Important: Read the instructions on pages 1-9.

215 - 1811
OMB No. 1660-0008
Expiration Date: July 31, 2015


## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION



B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.

B11. Indicate elevation datum used for BFE in Item B9: $\square$ NKVD $1929 \square$ NAD 1988 Other/Source: N/A
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?
Designation Date: $\quad \square$ CBS $\quad \square$ IPA $\quad \square$ Yes $\triangle$ No
_ Designation Date:

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: $\square$ Construction Drawings* $\square$ Building Under Construction* $\quad$ *A new Elevation Certificate will be required when construction of the building is complete. *A new Elevation Certificate will be required when construction of the building is complete.
C2. Elevations - Zones A1-A30, AE, AH, A (with BFE ), $\mathrm{VE}, \mathrm{V} 1-\mathrm{V} 30, \mathrm{~V}$ (with BFE ), $\mathrm{AR}, \mathrm{AR} / \mathrm{A}, \mathrm{AR} / \mathrm{AE}, \mathrm{AR} / \mathrm{A} 1-\mathrm{A} 30, \mathrm{AR} / \mathrm{AH}, \mathrm{AR} / \mathrm{AO}$. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: $\qquad$ Vertical Datum: $\qquad$ Indicate elevation datum used for the elevations in items a) through h) below. $\square$ NKVD $1929 \square$ NAV $1988 \square$ Other/Source: Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)
b) Top of the next higher floor
c) Bottom of the lowest horizontal structural member (V Zones only)
d) Attached garage (top of slab)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)
f) Lowest adjacent (finished) grade next to building (LAG)
g) Highest adjacent (finished) grade next to building (HAG)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support


## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. $I$ understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.
$\square$ Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a
$\square$ Check here if attachments.
licensed land surveyor?
$\square$ Yes
区 No

| Certifier's Name Jacob R Hildebrand |  | License Number 15733 |  |
| :--- | :--- | :--- | :--- |
|  | Vice President Land | Company Name | TEC Civil Engineering |
| Address 9480 Double Diamond \#200 | City Reno | State NV | ZIP Code 89521 |
| Signature | Date |  | Telephone 775-352-7800 |

## ELEVATION CERTIFICATE, page 2

| IMPORTANT: In these spaces, copy the corresponding information from Section A. | FOR INSURANCE COMPANY USE |
| :--- | :--- | :--- |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <br> 250 Morgan Ranch Court | Policy Number: |
| City Washoe County $\quad$ State NV ZIP Code 89510 | Company NAIC Number: |

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.
Comments Post Construction Certification.


SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)
For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is $1.1 \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is $1.7 \quad$ feet $\square$ meters $\boxtimes$ above or $\square$ below the LAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8-9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is $4.35 \square$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E3. Attached garage (top of slab) is $2.7 \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is $3.2 \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\square$ Yes $\square$ No $\square$ Unknown. The local official must certify this information in Section G.

## SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

$\square$ Check here if attachments.
SECTION G - COMMUNITY INFORMATION (OPTIONAL)
The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter meters.
G1. $\square$ The information in Section $C$ was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square$ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO
G3. $\square$ The following information (Items G4-G10) is provided for community floodplain management purposes.


Comments
U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCYMANAGEMENT AGENCY National Flood Insurance Program

ELEVATION CERTIFICATE
Important: Read the instructions on pages 1-9.

14-2526
OMB No. 1660-0008
Expiration Date: July 31, 2015


## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

| B1. NFIP Community Name \& Community Number WASHOE COUNTY 320019 |  |  | B2. County Name WASHOE |  | B3. State NEVADA |
| :---: | :---: | :---: | :---: | :---: | :---: |
| B4. Map/Panel Number 32031C3233 | B5. Suffix | B6. FIRM Index Date | B7. FIRM Panel Effective/Revised Date 03/16/2009 | B8. Flood Zone(s) Zone(s) A | B9. Base Fiood Elevation(s) (Zone AO, use base flood depth) NA |

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item Bg .
$\square$ FIS Profile
$\square$ FIRM
Community Determined
$\square$ Other/Source:

B11. Indicate elevation datum used for BFE in Item B9: $\square$ NGVD $1929 \square$ NAVD $1988 \square$ Other/Source:
B17 ${ }^{\text {I }}$ ' the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?
$\square$ Yes $\boxtimes$ No
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)
C1. Building elevations are based on: $\square$ Construction Drawings* $\square$ Building Under Construction* $\quad$ * Finished Construction *A new Elevation Certificate will be required when construction of the building is complete.
C2. Elevations - Zones $A 1-A 30, A E, A H, A$ (with $B F E$ ), $V E, V 1-V 30, V$ (with BFE), AR, AR/A, ARJAE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: $\qquad$ Vertical Datum: $\qquad$ Indicate elevation datum used for the elevations in Items a) through h) below. $\square$ NGVD $1929 \square$ NAVD $1988 \square$ Other/Source: Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.
a) Top of bottom floor (including basement, crawispace, or enclosure floor)
b) Top of the next higher floor
c) Bottom of the lowest horizontal structural member (V Zones only)
d) Attached garage (top of slab)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)
f) Lowest adjacent (finished) grade next to building (LAG)
$\frac{N A .}{N A .}$
g) Highest adjacent (finished) grade next to building (HAG)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support

| NA. | $\square$ feet | $\square$ meters |
| :---: | :---: | :---: |
| NA. | $\square$ feet | $\square$ meters |
| NA. | $\square$ feet | $\square$ meters |
| NA. | $\square$ feet | $\square$ meters |
| NA. | $\square$ feet | $\square$ meters |
| NA. | $\square$ feet | $\square$ meters |
| NA. | $\square$ feet | $\square$ meters |
| NA. | $\square$ feet | $\square$ meters |

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. $I$ understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.
Were lattude and longitude in Section A provided by a
$\square$ Check here if comments are provided on back of form.
$\square$ Check here if attachments. licensed land surveyor? $\boxtimes$ Yes $\square$ No

License Number PLS 5506

| SWNER | Company Name LANDMARK SURVEYING |  |  |
| :---: | :---: | :---: | :---: |
| Address 2548 -RAMPART TERRACE | City RENO | State NV | ZIP Code 89519 |
| Signature 230 | Date 11/06/2015 | Telephone | 775-324-0904 |

USS. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program

ELEVATION CERTIFICATE
Important: Read the instructions on pages 1-9.

PART 14-2989
2 OMB No. 1660-0008
Expiration Date: July 31, 2015

## FOR INSURANCE COMPANY USE

Policy Number:
Company NAIC Number: 9/90 PASSA TEMPO DRIVE

State NV ZIP Code 89511
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
LOT 516 CASAZZA RANCH ESTATES UNIT 5 APN 162-252-03
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL
A5. Latitude/Longitude: Lat. $39^{\circ} 26^{\prime} 12.37^{\prime \prime}$ Long. $-119^{\circ} 47^{\prime} 05.87^{\prime \prime}$
Horizontal Datum: $\square$ NAD 1927 ® NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.
A7. Building Diagram Number 8
A8. For a building with a crawlspace or enclosures):


## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION



B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
$\square$ FIS Profile
区 FIRM
$\square$ Community Determined
$\square$ Other/Source: $\qquad$
B11. Indicate elevation datum used for BFE in Item B9: $\triangle$ NKVD $1929 \square$ NAVD $1988 \square$ Other/Source:

B12 Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? $\quad \square$ Yes $\boxtimes$ No
Designation Date: $\qquad$ $\square$ CARS
$\square$ IPA

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: $\square$ Construction Drawings* $\square$ Building Under Construction ${ }^{*}$. $\quad$ Finished Construction *A new Elevation Certificate will be required when construction of the building is complete.
C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2. a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.
Benchmark Utilized: N/A
Vertical Datum: N/A
Indicate elevation datum used for the elevations in items a) through h) below. $\square$ NKVD $1929 \square$ NAVD $1988 \square$ Other/Source: Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)
b) Top of the next higher floor
NRA.
NA.
NRA._-_
NRA.
NA.
NRA.
NRA.
NA.

| $\square$ feet | $\square$ meters |
| :--- | :--- |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |

c) Bottom of the lowest horizontal
e) Lowest elevation of machinery or equipment servicing the building
(Describe type of equipment and location in Comments)
f) Lowest adjacent (finished) grade next to building (LAG)
g) Highest adjacent (finished) grade next to building (HAG)
$\qquad$ $\square$ feet $\square$ meters

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. $I$ understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.
$\square$ Check here if comments are provided on back of form.Check here if attachments.
ratifier's Name Harlan King, P.L.S.

| Owner. | Company Name | Harlan King \& Associates |  |
| :--- | :--- | :--- | :--- |
| Address 7490 Lopgley Lane \#B | City Reno | State NV | ZIP Code 89511 |
| Signature | Date $12 / 10 / 15$ | Telephone | 775-852-1777 |

## ELEVATION CERTIFICATE, page 2

| IMPORTANT: In these spaces, copy the corresponding information from Section A. | FOR INSURANCE COMPANY USE |
| :--- | :--- | :--- |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <br> 9790 PASSA TEMPO DRIVE | Policy Number: |
| Citv RENO State NV ZIP Code 89511 | Company NAIC Number: |

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

| Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner. |
| :--- |
| Comments REFERENCE MASTER DRAINAGE PLAN FOR CASAZZA RANCH ESTATES FOR 100 YEAR FLOOD INFORMATION PREPARED BY |
| NIMBUS ENGINEERS DATED FEBRUARY 14, 1996 ON FILE WITH WASHOE COUNTY ENGINEERING. MASTER DRAINAGE PLAN BASED ON NAVD |
| 1929 |

## SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is $1.0 \quad$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is $\underline{3} .0 \quad \boxtimes$ feet $\square$ meters $\mathbb{Q}$ above or $\square$ below the LAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8-9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is N/A. $\square$ feet $\square$ meters $\square$ above or $\square$ below the HAG.
E3. Attached garage (top of slab) is $3.2 \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is 3.2 feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\boxtimes$ Yes $\square$ No Unknown. The local official must certify this information in Section G.

## SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Tone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.
ty Owner's or Owner's Authorized Representative's Name Harlan King, PLS

| Address 7490 Longley Lane \#B | City RENO |
| :--- | :--- | State NV ZIP Code 89511

$\qquad$

## SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections $\mathrm{A}, \mathrm{B}, \mathrm{C}$ (or E ), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter meters.
G1. $\square$ The information in Section $C$ was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square$ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
G3. $\square$ The following information (Items G4-G10) is provided for community floodplain management purposes.

| G4. Permit Number | G5. Date Permit Issued |  | G6. Date Certificate Of Compliance/Occupancy Issued |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Comments

## Building Photographs

See Instructions for Item A6.
IMPORTANT: In these spaces, copy the corresponding information from Section A.

FOR INSURANCE COMPANY USE
Policy Number:

Company NAIC Number:

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.


FRONT


## RIGHT REAR

elevation certificate, page 4 Building Photographs

## Continuation Page

IMPORTANT: In these spaces, copy the corresponding information from Section A.
FOR INSURANCE COMPANY USE

| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <br> ᄀPASSA TEMPO DRIVE <br> Reno | Policy Number: |
| :--- | :--- |

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.


LEFT REAR


JNT LEFT

ELEVATION CERTIFICATE
Important: Read the instructions on pages 1-9.


A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential
A5. Latitude/Longitude: Lat. N/A Long. N/A Horizontal Datum: $\square$ NAD $1927 \square$ NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.
A7. Building Diagram Number $\underline{9}$
A8. For a building with a crawlspace or enclosures):
A9. For a building with an attached garage:


## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION



B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. $\square$ FIS Profile
$\square$ FIRM
$\square$ Community DeterminedOther/Source: $\qquad$
B11. Indicate elevation datum used for BFE in Item B9: $\square$ NKVD $1929 \square$ NAVD $1988 \square$ Other/Source:
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?
$\square$ Yes
$\square$ No Designation Date:
$\square$ CARS
$\square$ IPA

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:
$\square$ Construction Drawings*
$\square$ Building Under Construction*
® Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.
C 2 . Elevations - Zones $\mathrm{A} 1-\mathrm{A} 30, \mathrm{AE}, \mathrm{AH}, \mathrm{A}$ (with BFE), $\mathrm{VE}, \mathrm{V} 1-\mathrm{V} 30, \mathrm{~V}$ (with BFE ), $\mathrm{AR}, \mathrm{AR} / \mathrm{A}, \mathrm{AR} / \mathrm{AE}, \mathrm{AR} / \mathrm{A} 1-\mathrm{A} 30, \mathrm{AR} / \mathrm{AH}, \mathrm{AR} / \mathrm{AO}$. Complete Items C 2 .a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.
Benchmark Utilized: Assumed - see section D
Vertical Datum: $\qquad$
Indicate elevation datum used for the elevations in items a) through h) below. $\square$ NGVD $1929 \square$ NAVD $1988 \square$ Other/Source:
Datum used for building elevations must be the same as that used for the BFE.
Check the measurement used.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)
b) Top of the next higher floor
c) Bottom of the lowest horizontal structural member (V Zones only)
d) Attached garage (top of slab)
e) Lowest elevation of machinery or equipment servicing the building
(Describe type of equipment and location in Comments)
f) Lowest adjacent (finished) grade next to building (LAG)
g) Highest adjacent (finished) grade next to building (HAG)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support

$\square$ feet $\square$ meters $\square$ feet $\square$ meters $\square$ feet $\square$ meters $\square$ feet $\square$ meters $\square$ feet $\square$ meters $\begin{array}{ll}\square \text { feet } & \square \text { meters } \\ \square \text { feet } \\ \square \text { meters }\end{array}$ $\square$ feet $\square$ meters

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. $I$ understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.
$\square$ Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a
$\square$ Check here if attachments.
licensed land surveyor? $\square$ Yes $\boxtimes$ No

| Certifier's Name Lee H. Smithson |  | License Number PLS 5097 |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  | Vice President | Company Name | Fri State Surveying, Ltd. |  |
| Address 1925 East Prater Way. | City Sparks | State Nv | ZIP Code 89434 |  |
| Signature |  |  | Telephone | 775-358-9491 |

## ELEVATION CERTIFICATE, page 2

| IMPORTANT: In these spaces, copy the corresponding information from Section A. | FOR INSURANCE COMPANY USE |
| :--- | :--- |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <br> 442 Cameo Court - Residence |  |
| City Reno State Nv_ ZIP Code 89506 | Company NAIC Number: |

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.
Comments Basis of Elevations was assumed using the estimated elevation at the northwest corner of the proposed building as 4339.58 . The plan was prepared by D.L. Blake Residential Designer and dated February 16, 2015. A reference bench mark was set at the site at the Finish Floor of the proposed house, elevation of $434 \overline{1.58}$. This reference bench mark will be utilized in the construction, setting of the floor, to insure that the finish floor will be set in


## SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones $A O$ and $A$ (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is $1.7 \quad \boxtimes$ feet $\square$ meters $\square$ above or $\boxtimes$ below the HAG.
$\square$
b) Top of bottom floor (including basement, crawlspace, or enclosure) is $1.7 \quad \boxtimes$ feet $\square$ meters $\square$ above or $\boxtimes$ below the LAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A ltems 8 and/or 9 (see pages $8-9$ of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is $\underline{2} .0 \quad$ feet $\square$ meters $\square$ above or $\boxtimes$ below the HAG.
E3. Attached garage (top of slab) is $\mathrm{N} / \mathrm{A}$. $\square$ feet $\square$ meters $\square$ above or $\square$ below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is $2.0 \boxtimes$ feet $\square$ meters $\square$ above or $\boxtimes$ below the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\square$ Yes $\square$ No $\square$ Unknown. The local official must certify this information in Section $G$.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION
The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.
Adress 1925 East Prater Way

Comments The Engineered Flood Vents (Smart Vents) to be installed ( 6 Vents) are $16^{\prime \prime} \mathrm{X} 8^{\prime \prime}=128$ Sq.in.. $128 \mathrm{Sq} . \mathrm{in} . \mathrm{X6}=768 \mathrm{Sq} . \mathrm{in}$. Total Vent Area. The vents are rated to cover 200 Square Feet of area.

Check here if attachments.

## SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections $\mathrm{A}, \mathrm{B}, \mathrm{C}$ (or E ), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter meters.
G1. $\square$ The information in Section $C$ was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square$ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
G3. $\square$ The following information (Items G4-G10) is provided for community floodplain management purposes.

|  | ermit Number | G5. Date Permit Issued | G6. Date Certificate Of Compliance/Occupancy Issued |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| G8. Elevation of as-built lowest floor (including basement) of the building <br> G9. BFE or (in Zone AO) depth of flooding at the building site: <br> G10. Community's design flood elevation: |  |  | ovement fee fee fee | meters meters meters | Datum <br> Datum <br> Datum |  |
| Local Official's Name |  |  |  |  |  |  |
| Community Name |  | Telephone |  |  |  |  |
|  |  | Date |  |  |  |  |

Comments
$\square$ Check here if attachments.

## Building Photographs

See Instructions for Item A6.
IMPORTANT: In these spaces, copy the corresponding information from Section A.

FOR INSURANCE COMPANY USE
Policy Number:

Company NAIC Number:

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.


## Building Photographs

## Continuation Page

IMPORTANT: In these spaces, copy the corresponding information from Section A.

FOR INSURANCE COMPANY USE
Policy Number

Company NAIC Number:

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

ELEVATION CERTIFICATE
$\begin{aligned} & \text { PAr } \\ & \text { IMPORTANT: follow the instructions on pages 1-9. }\end{aligned}$
$\begin{aligned} & \text { Pa }\end{aligned} \quad / 5=05 / 6$
$\begin{aligned} & \text { OMB No. 1660-0008 } \\ & \text { Expiration Date: July 31, } 2015\end{aligned}$


## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

| B1. NFIP Community Name \& Community Number <br> Washoe County 320019 |
| :--- |
| B4. Map/Panel Number <br> $32031 C 3332$ |
| B5. Suffix |
| G |

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

ᄂ」. Building elevations are based on: $\square$ Construction Drawings* $\square$ Building Under Construction* $\boxtimes$ Finished Construction *A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C 2 . a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.
Benchmark Utilized: S33SM01042 (WSPC673)
Vertical Datum:
Indicate elevation datum used for the elevations in items a) through h) below. $\square$ NGVD 1929 X NAVD $1988 \square$ Other/Source: Datum used for building elevations must be the same as that used for the BFE.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)
b) Top of the next higher floor
c) Bottom of the lowest horizontal structural member (V Zones only)
d) Attached garage (top of slab)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)
f) Lowest adjacent (finished) grade next to building (LAG)
g) Highest adjacent (finished) grade next to building (HAG)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support

| $\frac{4473}{4478} \cdot \frac{83}{00}$ |
| ---: |
| $-\frac{\square}{4478} \cdot \frac{50}{4}+\frac{91}{4}$ |
| $\frac{4475}{4474} \cdot \frac{75}{50}$ |

Check the measurement used.

| $\boxtimes$ feet | $\square$ meters |
| :--- | :--- |
| $\boxtimes$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\boxtimes$ feet | $\square$ meters |
| $\boxed{\text { feet }}$ | $\square$ meters |
| $\boxtimes$ feet | $\square$ meters |
| $\mathbb{\text { feet }}$ | $\square$ meters |

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. $l$ understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.
$\square$ Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a
$\square$ Check here if attachments. licensed land surveyor? $\square$ Yes $\boxtimes$ No

| Certifier's Name Erik Bjur |  | $\begin{aligned} & \text { License Number } \\ & 17276 \end{aligned}$ |  |
| :---: | :---: | :---: | :---: |
| icipal | Company Name CFBSE |  |  |
| madress <br> 5425 Louie Lane | city Reno | $\begin{array}{\|l} \hline \text { State } \\ \text { NV } \\ \hline \end{array}$ | $\begin{aligned} & \hline \text { ZIP Code } \\ & 89521 \\ & \hline \end{aligned}$ |
| Signature | $\begin{array}{\|l\|} \hline \text { Date } \\ 02 / 26 / 2015 \\ \hline \end{array}$ | Telephone(775) 852-7339 |  |

## ELEVATION CERTIFICATE，page 2

| IMPORTANT：In these spaces，copy the corresponding information | n A． | FOR INSURANCE COMPANY USE |
| :---: | :---: | :---: |
| Building Street Address（Including Apt．，Unit，Suite，and／or Bldg．No． 22847 Carriage Drive | te and Box No． | Policy Number： |
| nity State <br> 3 no NV | $\begin{gathered} \hline \text { ZIP Code } \\ 89521 \\ \hline \end{gathered}$ | Company NalC Number： |

SECTION D－SURVEYOR，ENGINEER，OR ARCHITECT CERTIFICATION（CONTINUED）
Copy both sides of this Elevation Certificate for（1）community official，（2）insurance agent／company，and（3）building owner．
Comments C2．e Water Pressure Tank at 6＂above finished main floor．
Signature Date 12／16／2015

## SECTION E－BUILDING ELEVATION INFORMATION（SURVEY NOT REQUIRED）FOR ZONE AO AND ZONE A（WITHOUT BFE）

For Zones $A D$ and $A$（without $B F E$ ），complete Items E1－E5．If the Certificate is Intended to support a LOMA or LOMR－F request，complete Sections $A, B$, and $C$ ． For Items E1－E4，use natural grade，if available．Check the measurement used．In Puerto Rico only，enter meters．
E1．Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade（HAG）and the lowest adjacent grade（LAG）．

b）Top of bottom floor（including basement，crawlspace，or enclosure）is
1.00 区eet $\square$ meter
$\square$ above
㱜low the LAG．
E2．For Building Diagrams 6－9 with permanent flood openings provided in Section A ltems 8 and／or 9 （see pages 8－9 of Instructions）
the next higher floor（elevation C2．b in the diagrams）of the building is
E3．Attached garage（top of slab）is
E4．Top of platform of machinery and／or equipment servicing the building is
2.41
$\qquad$
291

『feet $\square$ meters $\square$ feet $\square$ meters $\square$ feet $\square$ meter $\square$ above or Xabove orbelow the HAG． ordinance？$\square$ Yes $\square$ No Unknown．The local official must certify this information in Section G ．

## SECTION F－PROPERTY OWNER（OR OWNER＇S REPRESENTATIVE）CERTIFICATION

The property owner or owner＇s authorized representative who completes Sections A，B，and E for Zone A（without a FEMA－issued or communityissued BFE）or Te AO must sign here．The statements in Sections $A, B$ ，and $E$ are correct to the best of my knowledge． Jerty Owner or Owner＇s Authorized Representative＇s Name Erik Bjur

| Address 22847 Carriage Drive | City Reno | State NV | 2lP Code 89521 |
| :--- | :---: | :---: | :---: |
| Signature | Date $02 / 26 / 2015$ | Telephone（775）852－7339 |  |
| Comments |  |  |  |

Check here if attachments．

## SECTION G－COMMUNITY INFORMATION（OPTIONAL）

The local officlal who is authorized by law or ordinance to administer the communily＇s floodplain management ordinance can complete Sections $\mathrm{A}, \mathrm{B}, \mathrm{C}$（or E ），and $G$ of this Elevation Certificate．Complete the applicable item（s）and sign below．Check the measurement used in Items G8－G10．In Puerto Rico only，enter meters．
G1．The information in Section $C$ was taken from other documentation that has been signed and sealed by a licensed surveyor，engineer，or architect who is authorized by law to certify elevation information．（Indicate the source and date of the elevation data in the comments area below．）
G2．$\square$ A community official completed Section E for a building located in Zone A（without a FEMA－issued or community－issued BFE）or Zone AO．
G3．$\square$ The following information（items G4－G10）is provided for community floodplain management purposes．


BUILDING PHOTOGRAPHS
See Instructions for Item A6.
IMPORTANT: In these spaces, copy the corresponding information from Section A.
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 2847 Carriage Drive

| Reno | State | ZIP Code | Company NAIC Number: |
| :--- | :--- | :--- | :--- |

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.


EAST (FRont)

$\operatorname{son} h$
(LEFT)

| IMPORTANT: In these spaces, copy the corresponding information from Section A. | FOR INSURANCE COMPANY USE |  |
| :--- | :--- | :--- |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. | Policy Number: |  |
| 3847 Carriage Drive |  |  |
| Reno | State | NV Code |

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program

ELEVATION CERTIFICATE Pit $15-1809$
Important: Read the instructions on pages 1-9. 2
SECTION A - PROPERTY INFORMATION
A1. Building Owner's Name Cappuro Investments

- $\quad$ 3uilding Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.

Morgan Ranch Court
City Washoe County
State NV
ZIP Code 89510
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
Parcel 2 of Parcel Map 4627 Document \#3437217 Recorded September $7^{\text {th }}, 2006$, APN 077-500-02
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential
A5. Latitude/Longitude: Lat. $\underline{39.769790}$ Long. $-119.613829 \quad$ Horizontal Datum: $\square$ NAD 1927 NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.
A7. Building Diagram Number 8
A8. For a building with a crawlspace or enclosure(s):


## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

| B1. NFIP Community Name \& Community Number Washoe County 320019 |  |  | B2. County Name Washoe |  | State evada |
| :---: | :---: | :---: | :---: | :---: | :---: |
| B4. Map/Panel Number 32031C2700 | $\begin{aligned} & \text { B5. Suffix } \\ & G \end{aligned}$ | B6. FIRM Index Date 06/18/2013 | B7. FIRM Panel Effective/Revised Date 3/16/2009 | $\begin{gathered} \text { B8. Flood } \\ \text { Zone(s) } \\ \text { A } \end{gathered}$ | B9. Base Flood Elevation(s) (Zone AO, use base flood depth) N/A |

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
$\square$ FIS Profile
$\square$ FIRM
$\square$ Community Determined
© Other/Source: N/A

B11. Indicate elevation datum used for BFE in Item B9: $\square$ NGVD $1929 \quad \square$ NAVD $1988 \quad \boxtimes$ Other/Source: N/A
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?
$\square$ Yes
囚 No

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:
$\square$ Construction Drawings*
$\square$ Building Under Construction*
区 Finished Construction *A new Elevation Certificate will be required when construction of the building is complete.
C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.
Benchmark Utilized: $\qquad$ _

Vertical Datum:
Indicate elevation datum used for the elevations in items a) through h) below. $\square$ NGVD $1929 \square$ NAVD $1988 \square$ Other/Source: Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)
b) Top of the next higher floor
c) Bottom of the lowest horizontal structural member (V Zones only)
d) Attached garage (top of slab)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)
f) Lowest adjacent (finished) grade next to building (LAG)
g) Highest adjacent (finished) grade next to building (HAG)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support

| N/A. | $\square$ feet | $\square$ meters |
| :---: | :---: | :---: |
| N/A. | $\square$ feet | $\square$ meters |
| N/A. | $\square$ feet | $\square$ meters |
| N/A. | $\square$ feet | $\square$ meters |
| N/A. | $\square$ feet | $\square$ meters |
| N/A. | $\square$ feet | $\square$ meters |
| N/A. | $\square$ feet | $\square$ meters |
| N/A. | $\square$ feet | $\square$ meters |

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. $I$ understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.
$\square$ Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a

|  |  | License Number 15733 |  |
| :--- | :--- | :--- | :--- |
| Certifier's Name Jason A. Gilles | Company Name | TEC Civil Engineering |  |
| President | City Reno | State NV | ZIP Code 89521 |
| Signature | Date $/ / / 9 / 15$ | Telephone 775-352-7800 |  |

## ELEVATION CERTIFICATE, page 2

| IMPORTANT: In these spaces, copy the corresponding information from Section A. |
| :--- |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <br> 155 Morgan Ranch Court |
| City Sparks Star INSURANCE COMPANY USE |

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)
Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.
Comments Post construction certification


## SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is 1.55
$\boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is $\underline{2} .15$
囚 feet
 meters $\mathbb{Q}$ above or $\square$ below the LAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8-9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is $\square$ feet meters $\boxtimes$ above or below the HAG.
E3. Attached garage (top of slab) is $2.75 \quad \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is 3.55 feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\square$ Yes $\square$ No $\square$ Unknown. The local official must certify this information in Section G .

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION
The property owner or owner's authorized representative who completes Sections $\mathrm{A}, \mathrm{B}$, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.
ty Owner's or Owner's Authorized Representative's Name TEC Civil Engineering

| Address 9480 Double Diamond \#200 | City Reno | State NV ZIP Code 89521 |  |
| :--- | :--- | :--- | :--- | :--- |
| Signature | Date $/-19-15$ | Telephone 775-352-7800 |  |
| Comments |  |  |  |

Check here if attachments.

## SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections $\mathrm{A}, \mathrm{B}, \mathrm{C}$ (or E ), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter meters.
G1. $\square$ The information in Section $C$ was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square$ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
G3. $\square$ The following information (Items G4-G10) is provided for community floodplain management purposes.

| G4. Permit Number | G5. Date Permit Issued | G6. Date Certificate Of Compliance/Occupancy Issued |  |  |
| :---: | :---: | :---: | :---: | :---: |
| G7. This permit has been issued for: <br> G8. Elevation of as-built lowest floor (in <br> G9. BFE or (in Zone AO) depth of flood <br> G10. Community's design flood elevation | New Construction luding basement) of the building: ing at the building site: |  | Datum <br> Datum <br> Datum |  |
| Local Official's Name |  |  |  |  |
| Community Name |  | hone |  |  |
| ure |  |  |  |  |
| $\square$ Check here if attachments. |  |  |  |  |

## SECTION A - PROPERTY INFORMATION

| A1. Building Owner's Name |
| ---: |
| 3uilding Street Addres <br> $\ldots$ Morgan Ranch Court |
| City Washoe County |

A5. Latitude/Longitude: Lat. 39.768932 Long. $-119.613816 \quad$ Horizontal Datum: $\square$ NAD 1927 N NAD 1983
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.
A7. Building Diagram Number $\underline{8}$
A8. For a building with a crawlspace or enclosure(s):
a) Square footage of crawlspace or enclosure(s) $\quad \underline{2317}$ sq ft
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade $\underline{0}$
c) Total net area of flood openings in A8.b $\underline{0}$

0 sq in

A9. For a building with an attached garage:
a) Square footage of attached garage $\underline{828} \mathrm{sq} \mathrm{ft}$
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade $\underline{0}$
c) Total net area of flood openings in A9.b $\underline{0} \quad$ sq in
d) Engineered flood openings? $\square$ Yes $\boxtimes$ No

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

| B1. NFIP Community Name \& Community Number Washoe County 320019 |  |  | B2. County Name Washoe |  |  | B3. State Nevada |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| B4. Map/Panel Number 32031C2700 | $\begin{aligned} & \text { B5. Suffix } \\ & \text { G } \end{aligned}$ | B6. F |  | B7. FIRM Panel Effective/Revised Date 3/16/2009 | $\begin{gathered} \text { B8. Flood } \\ \text { Zone(s) } \\ \text { A } \end{gathered}$ | B9. Base Flood AO, use b |  | tion(s) (Zone d depth) |
| B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. |  |  |  |  |  |  |  |  |
| $\square$ FIS Profile | FIRM | $\square$ Community Determined 区 Other/Sou |  |  |  |  |  |  |
| B11. Indicate elevation datum used for BFE in Item B9: $\square$ NGVD 1929 ( $\square$ NAVD 1988 Other/Source: N/A |  |  |  |  |  |  |  |  |
| 2. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Designation Date: $\qquad$ CBRS <br> OPA |  |  |  |  |  |  |  |  |

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on
$\square$ Construction Drawings*
$\square$ Building Under Construction*
区 Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.
C 2 . Elevations - Zones $\mathrm{A} 1-\mathrm{A} 30, \mathrm{AE}, \mathrm{AH}, \mathrm{A}$ (with BFE ), VE, $\mathrm{V} 1-\mathrm{V} 30, \mathrm{~V}$ (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.
Benchmark Utilized: $\qquad$ Vertical Datum:
(-
 Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)
b) Top of the next higher floor
c) Bottom of the lowest horizontal structural member (V Zones only)
d) Attached garage (top of slab)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)
f) Lowest adjacent (finished) grade next to building (LAG)
g) Highest adjacent (finished) grade next to building (HAG)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support

| N/A. | $\square$ feet | $\square$ meters |
| :---: | :---: | :---: |
| N/A. | $\square$ feet | $\square$ meters |
| N/A. | $\square$ feet | $\square$ meters |
| N/A. | $\square$ feet | $\square$ meters |
| N/A. | $\square$ feet | $\square$ meters |
| N/A. | $\square$ feet | $\square$ meters |
| N/A. | $\square$ feet | $\square$ meters |
| N/A. | $\square$ feet | $\square$ meters |

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. $I$ understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. $\square$ Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a $\square$ Check here if attachments. licensed land surveyor? $\square$ Yes $\boxtimes$ No

| Certifier's Name Jason A Gilles |  | License Number 16019 |  |
| :--- | :--- | :--- | :--- |
| President | Company Name | TEC Civil Engineering |  |
| Address 9480 Dquble Diamond \#200 | City Reno | State NV | ZIP Code 89521 |
| Signature | Date $2 / 17 / 16$ | Telephone | $775-352-7800$ |
|  |  |  |  |

ELEVATION CERTIFICATE, page 2

| IMPORTANT: In these spaces, copy the corresponding information from Section A. | FOR INSURANCE COMPANY USE |
| :--- | :--- |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <br> 150 Morgan Ranch Court | Policy Number: |
| City Washoe County | State NV_ZIP Code 89510 |

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.
Comments Post construction certification


For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawispace, or enclosure) is $1.5 \quad \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
b) Top of bottom floor (including basement, crawispace, or enclosure) is $2.5 \quad \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the LAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages $8-9$ of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is $5.25 \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E3. Attached garage (top of slab) is $4.0 \quad \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is $4.25 \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\square$ Yes $\square$ No $\square$ Unknown. The local official must certify this information in Section $G$.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION
The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.
ty Owner's or Owner's Authorized Representative's Name TEC Civil Engineering

| Address 9480 Double Diamond \#200 | City Reno | State NV |
| :--- | :--- | :--- |
| Signature | Date | Telephone 775-352-7800 |

Comments
$\square$ Check here if attachments.

## SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter meters.
G1. $\square$ The information in Section $C$ was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square$ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
G3. The following information (Items G4-G10) is provided for community floodplain management purposes.
U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY

ELEVATION CERTIFICATE

## Important: Read the instructions on pages 1-9. 2

SECTION A - PROPERTY INFORMATION
41. Building Owner's Name Capurro Investments

Building Street Address (including Apt., Unit. Suite, and/or Bldg. No.) or P.O. Route and Box No
105 James Ranch Court
City Washoe County
State NV Z Z P Code 89510

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.
Parcel 33 of Parcel Map 4639, Doc No 3437229 Recorded Sept 12, 2006 APN 077-520-11
A4. Building Use (e.g.. Residential, Non-Residential, Addition, Accessory, etc.) Residential
A5. Latitude/Longitude: Lat. $39 \mathrm{~d} 46^{\prime} 26^{\prime \prime} \mathrm{N}$ Long. $119 \mathrm{~d} 36^{\circ} 45^{\prime \prime} \mathrm{W}$
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance
A7. Building Diagram Number 8
A8. For a building with a crawispace or enclosure(s):


## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

| B1. NFIP Community Name \& Community Number Washoe County$320019$ |  |  | B2. County Name Washoe |  | B3. State Nevada |
| :---: | :---: | :---: | :---: | :---: | :---: |
| B4. Map/Panel Number 32031C2700 | B5. Suffix | B6. FIRM Index Date 3/16/2009 | B7. FIRM Panel Effective/Revised Date 3/16/2009 | $\begin{aligned} & \text { B8. Flood } \\ & \text { Zone(s) } \\ & \text { A } \end{aligned}$ | B9. Base Flood Elevation(s) (Zone AO, use base flood depth) N/A |

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
$\square$ FIS Profile $\square$ FIRM
$\square$ Community Determined
Q Other/Source: N/A

B11. Indicate elevation datum used for BFE in Item B9: $\square$ NGVD $1929 \quad \square$ NAVD $1988 \quad \boxtimes$ Other/Source: N/A
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?
Designation Date: Designation Date: $\quad \square \square$ CBRS $\square$ OPA

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: $\square$ Construction Drawings* $\square$ Building Under Construction* $\triangle$ Finished Construction -A new Elevation Certificate will be required when construction of the building is complete.
C2. Elevations - Zones $A 1-A 30, A E, A H, A$ (with $B F E$ ), $V E, V 1-V 30, V$ (with $B F E$ ), $A R, A R / A, A R / A E, A R / A 1-A 30, A R / A H, A R / A O$. Complete Items C2:a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters
Benchmark Utilized: $\qquad$ Vertical Datum
Indicate elevation datum used for the elevations in items a) through h) below. $\square$ NGVD $1929 \square$ NAVD $1988 \square$ Other/Source: $\qquad$ Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.


## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. $I$ understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code. Section 1001
$\square$ Check here if comments are provided on back of form
Were latitude and longitude in Section A provided by a
$\square$ Check here if attachments.
licensed land surveyor? $\square$ Yes $\boxtimes$ No

| Certifier's Name Jason A. Gilles |  | License Number 016019 |  |
| :--- | :--- | :--- | :--- |
| g President | Company Name | TEC Civil Engineering |  |
| Signature 9480 Double Diamond $\# 200$ | City Reno | State NV | ZIP Code 89521 |



## ELEVATION CERTIFICATE, page 2

| IMPORTANT: In these spaces, copy the corresponding information from Section A. |
| :--- |
| Building Street Address (including Apt., Unit. Suite, and/or Bldg. No.) or P.O. Route and Box No. <br> 105 James Ranch Court |
| $\cdots$, Sparks |

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)
Copy both sides of this Elevation Certificate for (1) community official. (2) insurance agent'company, and (3) building owner.
Comments Post construction certification


SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)
For Zones $A O$ and $A$ (without BFE), complete ltems E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For items E1-E4, use natural grade, if available. Check the measurement used in Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawspace, or enclosure) is $1.0 \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG,
b) Top of bottom floor (including basement, crawspace, or enclosure) is $\underline{2} \cdot 3 \quad \Delta$ feet $\square$ meters $\boxtimes$ above or $\square$ below the LAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8-9 of Instructions). the next higher floor (elevation C2.b in the diagrams) of the building is $\square$ feet $\square$ meters $\square$ above or $\square$ below the HAG
E3. Atlached garage (top of slab) is 3.0 区 feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is $3.9 \boxtimes$ feet $\square$ meters $\mathbb{Q}$ above or $\square$ below the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\square$ Yes $\square$ No $\square$ Unknown. The local official must certify this information in Section $G$.

## SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A. B. and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A. B. and E are correct to the best of my knowledge.

| erty Owner's or Owner's Authorized Representative's Name TEC Civil Engineering |  |  |  |
| :--- | :--- | :--- | :--- |
| Address 9480 Double Diamond $\# 200$ | City Reno | State NV | ZIP Code 89521 |
| Signature | Date $1 / 5 / 15$ | Telephone 775-352-7800 |  |
| Comments |  |  |  |

$\square$ Check here if attachments
SECTION G - COMMUNITY INFORMATION (OPTIONAL)
The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections $A, B, C$ (or $E$ ). and $G$ of this Elevation Certficate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only. enter meters.
G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square$ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
G3. $\square$ The following information (Items G4-G10) is provided for community floodplain management purposes

U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

ELEVATION CERTIFICATE
Important: Read the instructions on pages 1-9.

OMB No. 1660-0008
Expiration Date: July 31, 2015


## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

| B1. NFIP Community Name \& Community Number <br> Washoe County 320019 | B2. County Name <br> Washoe | B3. State <br> Nevada |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| B4. Map/Panel Number <br> 32031C2700 | B5. Suffix <br> G | B6. FIRM Index Date <br> $6 / 18 / 2013$ | B7. FIRM Panel <br> Effective/Revised Date <br> 3/16/2009 | B8. Flood <br> Zone(s) <br> A | B9. Base Flood Elevation(s) (Zone <br> AO, use base flood depth) <br> None |

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. $\square$ FIS Profile $\square$ FIRM $\square$ Community Determined $\boxtimes$ Other/Source: N/A
B11. Indicate elevation datum used for BFE in Item B9: $\square$ NGVD $1929 \square$ NAVD 1988 - Other/Source: N/A
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? $\square$ Yes $\boxtimes$ No

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: $\square$ Construction Drawings* $\square$ Building Under Construction* $\quad \square$ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.
*A new Elevation Certificate will be required when construction of the building is complete.
C 2 . Elevations - Zones $\mathrm{A} 1-\mathrm{A} 30, \mathrm{AE}, \mathrm{AH}, \mathrm{A}$ (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: $\qquad$ Vertical Datum: $\qquad$ Indicate elevation datum used for the elevations in items a) through h) below. $\square$ NGVD $1929 \square$ NAVD 1988 Other/Source: N/A Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)
b) Top of the next higher floor
c) Bottom of the lowest horizontal structural member (V Zones only)
d) Attached garage (top of slab)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)
$\square$ feet $\square$ feet
$\square$ meters
f) Lowest adjacent (finished) grade next to building (LAG)
g) Highest adjacent (finished) grade next to building (HAG)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support NA

| NA. | $\square$ feet | $\square$ meters |
| :---: | :---: | :---: |
| NA. | $\square$ feet | $\square$ meters |
| NA. | $\square$ feet | $\square$ meters |
| NA. | $\square$ feet | $\square$ meters |
| NA. | $\square$ feet | $\square$ meters |
| NA. | $\square$ feet | $\square$ meters |
| NA. | $\square$ feet | $\square$ meters |
| NA. | $\square$ feet | $\square$ meters |

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. $I$ understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001
$\square$ Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a $\square$ Check here if attachments.
licensed land surveyor? $\square$ Yes $\boxtimes$ No
Certifier's Name Jason A Gilles, PE
License Number 16019

| President | Company Name TEC Civil Engineering |  |  |
| :---: | :---: | :---: | :---: |
| Address 9480 Dquble Diamond \#200 | City Reno | State NV | ZIP Code 89521 |
| Signature | Date $2-4-16$ | Telephone | 775-352-7800 |

## ELEVATION CERTIFICATE, page 2

| IMPORTANT: In these spaces, copy the corresponding information from Section A. | FOR INSURANCE COMPANY USE |
| :--- | :--- |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <br> 150 Wrangler Ranch Ct |  |
| City Washoe County $\quad$ State NV ZIP Code 89510 | Company NAIC Number: |

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.
Comments Post Construction Certificate


SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)
For Zones AO and $A$ (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is $1.1 \quad \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is $\underline{3} . \underline{0} \quad$ feet $\square$ meters $\boxtimes$ above or $\square$ below the LAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages $8-9$ of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is $4.75 \quad \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E3. Attached garage (top of slab) is $4.1 \quad \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is $4.9 \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\square$ Yes $\square$ No $\square$ Unknown. The local official must certify this information in Section G.

## SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.


Check here if attachments.
SECTION G - COMMUNITY INFORMATION (OPTIONAL)
The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections $\mathrm{A}, \mathrm{B}, \mathrm{C}$ (or E ), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter meters.
G1. $\square$ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square$ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
G3. $\square$ The following information (Items G4-G10) is provided for community floodplain management purposes.

| G4. Permit Number | G5. Date Permit Issued |  | G6. Date Certificate Of Compliance/Occupancy Issued |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Important: Read the instructions on pages 1-9.


## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION



B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
$\square$ FIS Profile
$\square$ FIRM
$\square$ Community Determined
® Other/Source: N/A

B11. Indicate elevation datum used for BFE in Item B9: $\square$ NGVD $1929 \square$ NAD 1988 Other/Source: N/A
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? $\quad \square$ CARS $\quad \square$ IPA $\quad \square$ Yes $\boxtimes$ No
Designation Date: $\quad \square$
$\qquad$

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: $\square$ Construction Drawings* $\square$ Building Under Construction* $\boxtimes$ Finished Construction *A new Elevation Certificate will be required when construction of the building is complete.
C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2. a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: $\qquad$ Vertical Datum:
Indicate elevation datum used for the elevations in items a) through h) below. $\square$ NKVD $1929 \square$ NAD $1988 \square$ Other/Source: $\qquad$ Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)
b) Top of the next higher floor
c) Bottom of the lowest horizontal structural member (V Zones only)
d) Attached garage (top of slab)
e) Lowest elevation of machinery or equipment servicing the building
(Describe type of equipment and location in Comments)feet
$\square$ meters


## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.
$\square$ Check here if comments are provided on back of form.
Were latitude and longitude in Section A provided by a
$\square$ Check here if attachments.
licensed land surveyor? $\square$ Yes $\boxtimes$ No


| f) Lowest adjacent (finished) grade next to building (LAG) | NA. | $\square$ feet |
| :--- | :--- | :--- |
| g) | $\square$ meters |  |
| h) Lowest adjacent (finished) grade next to building (HAG) |  | $\square$ feet |
| $\square$ meters |  |  |

## ELEVATION CERTIFICATE, page 2

| IMPORTANT: In these spaces, copy the corresponding information from Section A. | FOR INSURANCE COMPANY USE |  |
| :--- | :--- | :--- |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <br> 150 Pinto Ranch Court |  |  |
| City Washoe County | State NV ZIP Code 89510 | Company NAIC Number: |

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.
Comments Post construction certification


SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)
For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of botlom floor (including basement, crawlspace, or enclosure) is $0.4 \quad$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
b) Top of bottom floor (including basement, crawspace, or enclosure) is $1.1 \quad$ feet $\square$ meters $\boxtimes$ above or $\square$ below the LAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A tems 8 and/or 9 (see pages 8-9 of instructions), the next higher floor (elevation C2.b in the diagrams) of the building is $3.1 \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E3. Attached garage (top of slab) is $1.2 \quad \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is 2.7 , feet $\square$ meters $\mathbb{Q}$ above or $\square$ below the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\square$ Yes $\square$ No $\square$ Unknown. The local official must certify this information in Section G.

## SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections $A, B$, and $E$ for Zone $A$ (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

| (ty Owner's or Owner's Authorized Representative's Name TEC Civil Engineering |
| :--- |
| Address 9480 Double Diamond \#200 |
| Signature |
| Comments |

Check here if attachments.

## SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local officlal who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections $A, B, C$ (or $E$ ), and $G$ of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter meters.
G1. $\square$ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square$ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
G3. $\square$ The following information (Items G4-G10) is provided for community floodplain management purposes.

U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

Important: Read the instructions on pages 1-9. L


A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential
A5. Latitude/Longitude: Lat. $39.16^{\prime} 33.96^{\prime \prime} \mathrm{N}$ Long. $-119.31^{\prime} 26.06^{\prime \prime} \quad$ Horizontal Datum: $\square$ NAD 1927 NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.
A7. Building Diagram Number $\underline{8}$
A8. For a building with a crawlspace or enclosure(s):

| a) | Square footage of crawispace or enclosure(s) | $\underline{2661}$ | $s q f t$ | a) | Square footage of attached garage | 628 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| b) | Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade | 12 |  | b) | Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 3 |  |  |
|  | Total net area of flood openings in A8.b | 1536 | $s q$ in | c) | Total net area of flood openings in A9. | 384 |  |
|  | Engineered flood openings? $\quad$ Yes $\square$ No |  |  | d) | Engineered flood openings? $\boxtimes$ |  |  |

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

| B1. NFIP Community Name \& Community Number Washoe County 320019 |  |  | B2. County Name Washoe |  | State evada |
| :---: | :---: | :---: | :---: | :---: | :---: |
| B4. Map/Panel Number 32031C2700 | B5. Suffix G | B6. FIRM Index Date 03/16/2009 | B7. FIRM Panel Effective/Revised Date 3/16/2009 | $\begin{aligned} & \text { B8. Flood } \\ & \text { Zone(s) } \\ & \text { A } \end{aligned}$ | B9. Base Flood Elevation(s) (Zone AO, use base flood depth) N/A |

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
$\square$ FIS Profile
$\square$ FIRM
$\square$ Community Determined
区 Other/Source: N/A

B11. Indicate elevation datum used for BFE in Item B9: $\square$ NGVD $1929 \quad \square$ NAVD $1988 \quad \boxtimes$ Other/Source: N/A
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? $\quad \square$ CBRS $\square$ OPA $\quad \square$ Yes $\boxtimes$ No
Designation Date: $\quad \square$

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:
$\square$ Construction Drawings*
$\square$ Building Under Construction*
B Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.
C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: $\qquad$ Vertical Datum:
ndicate elevation datum used for the elevation in items a) through h) below. Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)
b) Top of the next higher floor
c) Bottom of the lowest horizontal structural member (V Zones only)
d) Attached garage (top of slab)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)
f) Lowest adjacent (finished) grade next to building (LAG) $\begin{array}{lll}\text { N/A. } & \square \text { feet } & \square \text { meters } \\ \mathrm{N} / \mathrm{A} . & \square & \square \text { feet } \\ \mathrm{N} / \mathrm{A} . & \square \text { meters } \\ \mathrm{N} / \mathrm{A} . \\ \mathrm{N} / \mathrm{A} . \\ & \square \text { feet } & \square \text { meters } \\ \mathrm{N} / \mathrm{A} . & \square \text { feet } & \square \text { meters } \\ \mathrm{N} / \mathrm{A} . & \square \text { feet } & \square \text { meters } \\ \mathrm{N} / \mathrm{A} . & \square \text { feet } & \square \text { meters } \\ & \square \text { feet } & \square \text { meters } \\ & \square \text { feet } & \square \text { meters }\end{array}$
g) Highest adjacent (finished) grade next to building (HAG)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support
N/A. $\qquad$ $\begin{array}{ll}\square \text { feet } & \square \text { meters } \\ \square \text { feet } & \square \text { meters }\end{array}$

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. $I$ understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.
$\square$ Check here if comments are provided on back of form.
$\square$ Check here if attachments.
Were latitude and longitude in Section A provided by a

| Certifier's Name Jason A Gilles |  | License Number 16019 |  |  |
| :--- | :--- | :--- | :--- | :---: |
| President | Company Name | TEC Civil Engineering |  |  |
| Address 9480 Double Diamond \#200 | City Reno | State NV | ZIP Code 89521 |  |
| Signature | Date $2-17-16$ | Telephone | 775-352-7800 |  |

## ELEVATION CERTIFICATE, page 2

| IMPORTANT: In these spaces, copy the corresponding information from Section A. |  |  | FOR INSURANCE COMPANY USE |
| :---: | :---: | :---: | :---: |
| Building Street Addres 200 Pinto Ranch Court | P.O. Route | d Box No. | Policy Number: |
| City Washoe County | State NV | ZIP Code 89510 | Company NAIC Number: |

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.
Comments Post construction certification


## SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is $0.5 \quad \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is $1.6 \quad$ feet $\square$ meters $\boxtimes$ above or $\square$ below the LAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages $8-9$ of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is $3.2 \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E3. Attached garage (top of slab) is $1.1 \boxtimes$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is $2 . .6$ feet $\square$ meters $\boxtimes$ above or $\square$ below the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\square$ Yes $\square$ No $\square$ Unknown. The local official must certify this information in Section G.

## SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

| ty Owner's or Owner's Authorized Representative's Name TEC Civil Engineering |  |  |  |
| :--- | :--- | :--- | :--- |
| Address 9480 Double Diamond \#200 | City Reno | State NV | ZIP Code 89521 |
| Signature | Date $2-17-16$ | Telephone 775-352-7800 |  |
| Comments |  |  |  |

## SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter meters.
G1. $\square$ The information in Section $C$ was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square$ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
G3. $\square$ The following information (Items G4-G10) is provided for community floodplain management purposes.


USS. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

ELEVATION CERTIFICATE
IMPORTANT: Follow the instructions on pages 1-9.

OMB No. 1660-0008 Expiration Date: July 31, 2015


## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: $\square$ Construction Drawings* $\square$ Building Under Construction* $\triangle$ Finished Construction *A new Elevation Certificate will be required when construction of the building is complete.
C2. Elevations - Zones A1-A30, AE, AH, $A$ (with BFE), VE, V1-V30, V (with BFE), AR, AR /A, AR/AE, AR/A1-A30, AR/AH, AR /AO. Complete Items C2. a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.
Benchmark Utilized: $\qquad$
$\qquad$
Indicate elevation datum used for the elevations in items a) through h) below. $\square$ NGVD 1929 $\square$ NAV 1988 $\square$ Other/Source: $\square$ Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)


| $\boxtimes$ feet | $\square$ meters |
| :--- | :--- |
| $\boxtimes$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\square$ feet | $\square$ meters |
| $\boxtimes$ feet | $\square$ meters |
| 区 feet | $\square$ meters |
| $\boxed{\text { feet }}$ | $\square$ meters |
| $\square$ feet | $\square$ meters |

c) Bottom of the lowest horizontal structural member (V Zones only)
d) Attached garage (top of slab)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)
f) Lowest adjacent (finished) grade next to building (LAG)
g) Highest adjacent (finished) grade next to building (HAG)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.
$\square$ Check here if comments are provided on back of form. $\square$ Check here if attachments.

Were latitude and longitude in Section A provided by a licensed land surveyor? 区 Yes $\square$ No


ELEVATIUN CERTIFICATE, page 2

| IMPORTANT: In these spaces, copy the corresponding information from Section A. | FOR INSURANCE COMPANY USE |  |
| :--- | :--- | :--- |
| Building Street Address (including Apt., Unit, Suite, and/or BIdg. No.) or Po. Route and Box No. | Policy Number: |  |
| 447 CAMEO CT | State $\quad$ ZIP Code | Company NAIC Number: |
| rity |  |  |
| MMON VALLEY | NV | 89506 |

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)
Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.
Comments NO SERVICING MACHINERY SHOWN ON PLANS


## SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bo JACKS
2.0 $\qquad$区 feet$\square$ meters
区 above or$\square$ below the HAG. b) Top of bottom floor (including basement, crawlspace, or enclosure) is $\qquad$ . $\square$ feet $\qquad$ meters $\square$ above orbelow the LAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8-9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is

$\qquad$ $\square$ above or
$\square$ below the HAG.
E3. Attached garage (top of slab) is $\square$ feetmeters $\square$ above orbelow the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is $\qquad$ . $\square$ feet $\square$ meters $\square$ above orbelow the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\square$ Yes $\square$ No $\square$ Unknown. The local official must certify this information in Section G.

## SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

| The property owner or owner's authorized representative who completes Sections $A, B$, and E for Zone A (without a FEMA-issued or community-issued BFE) or |  |
| :--- | :--- |
| 7nne AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge. |  |
| Jerty Owner or Owner's Authorized Representative's Name | City |
| Address | Date |
| Signature | State |
| Comments | Telephone |

$\square$ Check here if attachments.

## SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter meters.
G1. $\square$ The information in Section $C$ was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square$ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
G3. $\square$ The following information (Items G4-G9) is provided for community floodplain management purposes.

| G4. Permit Number | G5. Date Permit Issued | G6. Date Certificate Of Com | pliance/Occupancy Issued |
| :---: | :---: | :---: | :---: |
| G7. This permit has been issued for: <br> G8. Elevation of as-built lowest floor (includir <br> G9. BFE or (in Zone AO) depth of flooding <br> G10.Community's design flood elevation: | ew Construction Subs basement) of the building: he building site: | _   <br> - $\square$ feet $\square$ meters <br> - $\square$ feet $\square$ meters <br> $\square$ $\square$ feet $\square$ meters | Datum $\qquad$ <br> Datum $\qquad$ <br> Datum $\qquad$ |
| Local Official's Name |  |  |  |
| Community Name |  |  |  |
| Signature |  |  |  |

nments

U．S．DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

| SECTION A－PROPERTY INFORMATION |  |  | FOR INSURANCE CON |  |
| :---: | :---: | :---: | :---: | :---: |
| 1．Building Owner＇s Name McWILLIAMS TRUST |  |  | Policy Number： |  |
| A2．Building Street Address（including Apt．，Unit，Suite，and／or Bldg．No．）or PO．Route and Box No． 5379 WOODS AVENUE |  |  | Company NAIC Number： |  |
| City RENO | State NV ZIP Code 89433 |  |  |  |
| A3．Property Description（Lot and Block Numbers，Tax Parcel Number，Legal Description，etc．） APN 085－152－19 |  |  |  |  |
| A4．Building Use（e．g．，Residential，Non－Residential，Addition，Accessory，etc．）RESIDENTIAL－MANUFACTURED HOME <br> A5．Latitude／Longitude：Lat．39－35－18－02N $\qquad$ Long．119－46－25．54W <br> Horizontal Datum： $\square$ NAD 1927 <br> NAD 1983 <br> A6．Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance． <br> A7．Building Diagram Number 6 $\qquad$ <br> A8．For a building with a crawlspace or enclosure（s）： <br> A9．For a building with an attached garage： <br> a）Square footage of crawlspace or enclosure（s） $\qquad$ <br> 1493 sq ft <br> a）Square footage of attached garage $\qquad$ sq ft <br> b）No．of permanent flood openings in the crawlspace or $\qquad$ b）Number of permanent flood openings in the attached garage enclosure（s）within 1.0 foot above adjacent grade within 1.0 foot above adjacent grade $\qquad$ <br> c）Total net area of flood openings in A8．b <br> d）Engineered flood openings？ No $s q$ in <br> c）Total net area of flood openings in A9．b <br> Yes d）Engineered flood openings？ Yes No |  |  |  |  |
|  |  |  |  |  |

## SECTION B－FLOOD INSURANCE RATE MAP（FIRM）INFORMATION



## SECTION C－BUILDING ELEVATION INFORMATION（SURVEY REQUIRED）

こ1．Building elevations are based on：$\square$ Construction Drawings＊$\square$ Building Under Construction＊$\boxtimes$ Finished Construction ＊A new Elevation Certificate will be required when construction of the building is complete．
C2．Elevations－Zones A1－A30，AE，AH，A（with BFE），VE，V1－V30，V（with BFE），AR，AR／A，AR／AE，AR／A1－A30，AR／AH，AR／AO．Complete Items C2．a－h below according to the building diagram specified in Item A7．In Puerto Rico only，enter meters． Benchmark Utilized：WASHOE COUNTY CORS NETWORK Vertical Datum：NAVD88
Indicate elevation datum used for the elevations in items a）through h）below．$\square$ NGVD 1929 X NAVD $1988 \square$ Other／Source： Datum used for building elevations must be the same as that used for the BFE．
a）Topo t JACKI
b）Top of the next higher floor
c）Bottom of the lowest horizontal structural member（V Zones only）
d）Attached garage（top of slab）
e）Lowest elevation of machinery or equipment servicing the building （Describe type of equipment and location in Comments）
f）Lowest adjacent（finished）grade next to building（LAG）
g）Highest adjacent（finished）grade next to building（HAG）
h）Lowest adjacent grade at lowest elevation of deck or stairs，including structural support

|  |  | Check the measurement used |  |
| :---: | :---: | :---: | :---: |
| 4681 | 1 | 区 feet | $\square$ meters |
| 4682 | 7 | 区 feet | $\square$ meters |
|  |  | $\square$ feet | $\square$ meters |
|  |  | $\square$ feet | $\square$ meters |
| 4682 | 7 | 区 feet | $\square$ meters |
| 4678 | 7 | 区 feet | $\square$ meters |
| 4679 | 4 | 区 feet | $\square$ meters |
|  |  | $\square$ feet | $\square$ meters |

SECTION D－SURVEYOR，ENGINEER，OR ARCHITECT CERTIFICATION
This certification is to be signed and sealed by a land surveyor，engineer，or architect authorized by law to certify elevation information．I certify that the information on this Certificate represents my best efforts to interpret the data available． $I$ understand that any false statement may be punishable by fine or imprisonment under 18 U．S．Code，Section 1001.
$\square$ Check here if comments are provided on back of form．
$\square$ Check here if attachments．
Certifier＇s Name
Jon B．Loder


## ELEVATION CERTIFICATE, page 2

| IMPORTANT: In these spaces, copy the corresponding information from Section A. | FOR INSURANCE COMPANY USE |
| :--- | :--- |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or PO. Route and Box No. | Policy Number: |
| 5379 WOODS AVENUE   <br> lity ZIP Code Company NAIC Number: <br> RENO Stater  |  |

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.
Comments STANDARD HOUSEHOLD APPLIANCES AT FINISH FLOOR LEVEL.
LOWER LEVEL ENCLOSURE IS IYPICAL MOBILE HOME SIDING CONSTRUCTED OF WOOD.

## Date $12 / 15 / 2015$

## SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C.
For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is
b) Top of bottom floor (including basement, crawlspace, or enclosure) is
$\qquad$ -$\square$ meters $\square$ above or $\square$ below the HAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A ltems 8 and/or 9 (see pages 8-9 of Instructions),
$\qquad$ $\square$ feetmeters $\square$ above or $\square$ below the LAG.
the next higher floor (elevation C2.b in the diagrams) of the building is
 -$\square$ fee
$\square$ above or $\square$ below the HAG.

E3. Attached garage (top of slab) is$\square$ feet$\square$ meters $\square$ above orbelow the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is $\square$ feet $\square$ meters $\square$ above orbelow the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\square$ Yes Unknown. The local official must certify this information in Section G.

## SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.
'roperty Owner or Owner's Authorized Representative's Name

| Address | City | State Code |
| :--- | :--- | :--- |
| Signature | Date | Telephone |

Check here if attachments

## SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter meters.
G1. $\square$ The information in Section $C$ was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square$ A community official completed Section E for a building located in Zone A (without a FEMA-Issued or community-issued BFE) or Zone AO.
G3.The following information (Items G4-G9) is provided for community floodplain management purposes.

| G4. Permit Number | G5. Date Permit Issued | G6. Date Certificate Of Compliance/Occupancy Issued |  |
| :---: | :---: | :---: | :---: |
| G7. This permit has been issued for: $\square$ New Construction $\square$ Subs <br> G8. Elevation of as-built lowest floor (including basement) of the building: <br> G9. BFE or (in Zone AO) depth of flooding at the building site: <br> G10. Community's design flood elevation: |  | $\_$ $\square$ feet $\square$ meters <br> - $\square$ feet $\square$ meters <br> - $\square$ feet $\square$ meters | Datum $\qquad$ <br> Datum $\qquad$ <br> Datum $\qquad$ |
| Local Official's Name |  |  |  |
| Community Name |  |  |  |
| Signature |  |  |  |

Comments

| IMPORTANT: In these spaces, copy the corresponding information from Section A. | FOR INSURANCE COMPANY USE |
| :---: | :---: |
| 3uilding Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 5379 WOODS AVENUE | Policy Number: |
| City State zIP Code <br> RENO NV 89433 | Company NAIC Number: |

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.

## FRONT VIEW:



RIGHT SIDE VIEW:


Continuation Page

| IMPORTANT: In these spaces, copy the corresponding information from Section A. |
| :--- |
| 3uilding Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or Po. Route and Box No. FOR INSURANCE COMPANY USE <br> 5379 WOODS AVENUE Policy Number: <br> City  ZIP Code <br> RENO State NV Company NAIC Number: |

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

REAR SIDE VIEW:


U．S．DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

## elevation certificate $\mathrm{Par}^{\dagger}$

Important：Read the instructions on pages 1－9．

15－1836
OMB No．1660－0008
Expiration Date：July 31， 2015


## SECTION B－FLOOD INSURANCE RATE MAP（FIRM）INFORMATION

| B1．NFIP Community Name \＆Community Number Washoe County Unincorporated Area 320019 |  |  | B2．County Name Washoe |  | B3．State Nevada |
| :---: | :---: | :---: | :---: | :---: | :---: |
| B4．Map／Panel Number 32031C3063G | $\begin{aligned} & \text { B5. Suffix } \\ & \text { Gen } \end{aligned}$ | B6．FIRM Index Date | B7．FIRM Panel Effective／Revised Date 03／16／2009 | $\begin{aligned} & \text { B8. Flood } \\ & \text { Zone(s) } \\ & \text { AE } \end{aligned}$ | B9．Base Flood Elevation（s）（Zone AO，use base flood depth） 4395 |

B10．Indicate the source of the Base Flood Elevation（BFE）data or base flood depth entered in Item B9．
$\square$ FIS Profile
－FIRM
$\square$ Community Determined
$\square$ Other／Source：

B11．Indicate elevation datum used for BFE in Item B9：$\square$ NGVD 1929
® NAVD $1988 \square$ Other／Source：
$B^{1 n}$ Is the building located in a Coastal Barrier Resources System（CBRS）area or Otherwise Protected Area（OPA）？$\quad \square$ CBRS $\quad \square$ Yes $\square$ No
Jesignation Date： Jesignation Date： $\qquad$ $\square$ CBRS
$\square$ OPA

## SECTION C－BUILDING ELEVATION INFORMATION（SURVEY REQUIRED）

C1．Building elevations are based on：$\square$ Construction Drawings＊$\square$ Building Under Construction＊$\quad$ Finished Construction ＊A new Elevation Certificate will be required when construction of the building is complete．
C2．Elevations－Zones $A 1-A 30, A E, A H, A$（with $B F E$ ），VE，V1－V30，V（with BFE），AR，AR／A，AR／AE，AR／A1－A30，AR／AH，AR／AO．Complete Items C2．a－h below according to the building diagram specified in Item A7．In Puerto Rico only，enter meters．
Benchmark Utilized：Control Point \＃10 Vertical Datum：NAVD 1988
Indicate elevation datum used for the elevations in items a）through h）below．$\square$ NGVD 1929 NAVD $1988 \square$ Other／Source： Datum used for building elevations must be the same as that used for the BFE．

Check the measurement used．
a）Top of bottom floor（including basement，crawlspace，or enclosure floor）
b）Top of the next higher floor
c）Bottom of the lowest horizontal structural member（V Zones only）
d）Attached garage（top of slab）
e）Lowest elevation of machinery or equipment servicing the building （Describe type of equipment and location in Comments）
f）Lowest adjacent（finished）grade next to building（LAG）
g）Highest adjacent（finished）grade next to building（HAG）
h）Lowest adjacent grade at lowest elevation of deck or stairs，including structural support

| 4399.4 | ® feet | $\square$ meters |
| :---: | :---: | :---: |
| NA． | $\square$ feet | $\square$ meters |
| NA． | $\square$ feet | $\square$ meters |
| NA． | $\square$ feet | $\square$ meters |
| NA | $\square$ feet | $\square$ meters |
| 4396.25 | 区 feet | $\square$ meters |
| 4396.40 | 区 feet | $\square$ meters |
| 4396.25 | 区 feet | $\square$ meters |

## SECTION D－SURVEYOR，ENGINEER，OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor，engineer，or architect authorized by law to certify elevation information．I certify that the information on this Certificate represents my best efforts to interpret the data available． $I$ understand that any false statement may be punishable by fine or imprisonment under 18 U．S．Code，Section 1001.
$\square$ Check here if comments are provided on back of form．
Were latitude and longitude in Section A provided by a
$\square$ Check here if attachments．
licensed land surveyor？Yes $\boxtimes$ No




## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.
Comments


## SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is $\qquad$ $\square$ feet $\square$ meters $\square$ above or $\square$ below the HAG.
$\square$ feet $\square$ meters $\square$ above or $\square$ below the LAG.
E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A ltems 8 and/or 9 (see pages $8-9$ of instructions), the next higher floor (elevation C2.b in the diagrams) of the building is
$\qquad$ $\square$ feet $\square$ meters
$\square$ feetabove or
$\qquad$ $\square$ above or below the HAG.
E3. Attached garage (top of slab) is $\qquad$
$\qquad$ HAG.
E4. Top of platiorm of machinery and/or equipment servicing the building is $\square$ feet $\square$ meters $\square$ above or $\square$ below the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? $\square$ Yes $\square$ No $\square$ Unknown. The local official must certify this information in Section $G$.

## SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) $f^{-7 n e} A O$ must sign here. The statements in Sections $A, B$, and $E$ are correct to the best of my knowledge. rty Owner's or Owner's Authorized Representative's Name

| Address | City | State | ZIP Code |
| :--- | :--- | :--- | :--- |
| Signature | Date | Telephone |  |

Comments

## SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections $A, B, C$ (or $E$ ), and $G$ of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in ltems G8-G10. In Puerto Rico only, enter meters.
G1. The information in Section $C$ was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
G2. $\square$ A community official completed Section E for a building located in Zone A (without a FEMA-Issued or community-issued BFE) or Zone AO.
G3. $\square$ The following information (Items G4-G10) is provided for community floodplain management purposes.


Comments

## Community Rating System

Activity 320 - Map Information Services

WASHOE COUNTY
COMMUNITY SERVICES DEPARTMENT
Engineering and Capital Projects Division

October 3, 2016
Gina Gabriel, CFM
ISO/CRS Specialist
P.O. Box 225

1006 State Street
Weiser, Idaho 83672
Re: Washoe County, Nevada (NFIP\# 320019)
Community Rating System (CRS)
Activity 320
Dear Ms. Gabriel,
Washoe County has several community outreach activities which are summarized here with backup information attached. The County has developed a website called "Washoe County FEMA DFIRM Map" that is accessible to the general public through the Internet. The 134 current Flood Insurance Rate Maps (FIRM) are within the GIS database to depict parcels, water bodies, roads, and the floodplains of the FIRM. The LOMR updates are added to "Washoe County FEMA DFIRM Map" on a separate layer. Affected LOMR areas of the FIRM will be highlighted in a different shading to give the inquirer ease in determining the revised flood zones from the original. Inquirers can also access the LOMR in PDF.

The Truckee Meadows Flood Management Authority works with residents of Washoe County, City of Reno, and City of Sparks to inform the public about flooding and how to prepare for it. Also, the website www.nevadafloods.org provides flood information and preparation details for the public.

Enclosed are sample documents which are sent annually to County property owners with information which includes a Flood Awareness Brochure, Flood Information letter, the "Washoe County FEMA DFIRM Map" internet access, Mandatory Purchase of Flood Insurance Requirement, emergency awareness and links to other agencies offering more flood information.

The County sends letters to mortgage companies, insurance companies, and realtors to inform them that the County offers NFIP information like Flood Zones, BFE's, Panel Numbers, Effective Dates, Map Numbers, and Letter Of Map Revisions (LOMR).

Sincerely,


Leo R. Vesely, P.E., CFM
Licensed Engineer/CRS Coordinator
Washoe County FEMA DFIRM Map
DISCLAIMER


For questions about this application, click here to e-mail the Webmaster or contact:
Washoe County Technology Services Department
ional Services Division-GIC
PO Box 11130
Reno. NV $89520-0027$
CLICK HERE TO CLOSE DISCLAIMER




WASHOE COUNTY COMMUNITY SERVICES DEPARTMENT

Engineering and Capital Projects Division

1001 East $9^{\text {th }}$ Street PO Box 11130 Reno, Nevada 89520 Telephone: (775) 328-2040 Fax: (775) 328-3699

November 20, 2015

NOTICE TO: Lending Institutions, Real Estate and Insurance Agents
SUBJECT: Flood Insurance Rate Map Zone Information
As a public service, Washoe County will provide you with the following information upon request:

- Whether a property is in or out of the Special Flood Hazard Area (SFHA) as shown on the current Flood Insurance Rate Map (FIRM) of the County.
- Additional flood insurance data for a site, such as the FIRM zone and the base flood elevation or depth, if shown on the FIRM.
- We have a handout on the flood insurance purchase requirement that can help people who need a mortgage or loan for a property in the SFHA.
- Washoe County maintains elevation certificates for review. We can send digital copies via email or fax copies.
- Washoe County updates the floodplain layer on the Washoe County FEMA DFIRM Map application as needed when revisions are made to the maps. This information can be accessed through our website. See attached instructions for "Washoe County FEMA DFIRM Map".

If you would like to make an inquiry, please tell us the Assessors Parcel Number (APN) or street address. We are open 8:00 am to 5:00 pm, Monday through Friday. Call us at the Community Services Department (775) 328-2040 or drop by the office at 1001 East $9^{\text {th }}$ Street, Reno, NV 89520, Building A, second floor. There is no charge for flood information services.

## CRS 320 - FLOOD MAP INFORMATION LOG

| DATE | $\begin{gathered} \text { ADDRESS } \\ \text { APN } \end{gathered}$ | TYPE OF ASSISTANCE | $\begin{aligned} & \text { FIRM } \\ & \text { ZONE } \end{aligned}$ | $\begin{gathered} \hline \text { Flood Insurance } \\ \text { Purchase } \\ \text { Requirement } \\ \hline \end{gathered}$ | Misc. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 7/26/16 | 11300 Wagon Ho Lane | Customer wanted to know if therewas an elevation certificate or LOMR on file. Directed him to Joaquin | $X, A E$ |  |  |
| $7129 / 16$ | 12695 Silver Wolf Rd. | Customer wanted to know if we were NSIP participants and if flood insurance was required. Directed her to Joaquin. | A, $X$ |  |  |
| 8/01/16 | $255 \mathrm{Kit+s}$ Way | Customer wansed to know if there asas an elevation certeficare on file. | $\begin{aligned} & x \\ & A O \end{aligned}$ |  |  |
| 8/01/16 | 5468 Woods Dr. | Customer wanted to know if there was an el evation certificate onfile. | $A E$ |  |  |
| 8/02/16 | 978 Leah Cir. | Customer wanted to know if an elevation certificate was on file. Dinected her to City of Reno | AO |  |  |
| 8/01/16 | 3215 W Hidden Valley DDr. | Clustomer wanted to know if Property was in a flood Eone back in 1977. Directed her to Joaquin. | $\begin{aligned} & X(S H A D E D) \\ & A E \end{aligned}$ |  |  |
| 8/09/16 | 201 W Laramie Dr. | Customer needed an elevation certificate. | AO |  |  |
| 8/09/16 | 3204 Halleck Dr. | Customer wanted an elevation certificate. Directed her to Carson Cl ty. | Unknown |  |  |

## Community Rating System

## Activity 330 - Outreach Projects

# WASHOE COUNTY <br> COMMUNITY SERVICES DEPARTMENT <br> Engineering and Capital Projects Division 

1001 East $9^{\text {th }}$ Street PO Box 11130 Reno, Nevada 89520 Telephone: (775) 328-2040 Fax: (775) 328-3699
November 20, 2015
Dear Washoe County Resident:
This letter is being sent to you for informational purposes only because our records show that your property is very likely located in a FEMA floodplain. The County is working on ways to improve and increase its circulation and accessibility of information that pertains to the FEMA floodplain, in an effort to better educate and assist its citizens about developing and living in the floodplain. Please take the time to read the information below and if you have further questions, or would like additional information, a variety of contact information has been supplied at the end of this document.

## Overview

The Truckee River is incorporated throughout most of the Truckee Meadows in Washoe County along with several smaller streams and tributaries that are susceptible to annual flooding events. The flooding events pose threats to life and safety and have caused significant property damage. Washoe County has approximately 105,000 acres of floodplain and nearly 4,400 individual parcels that are partially or entirely located within the floodplain. Snowmelt from the Sierra Nevada mountain range contributes substantially to flooding, as well as ongoing development that has displaced natural areas that have historically functioned as flood storage.

## Recent Flooding Events

The Truckee River has had one major flood event per decade, on average. Fourteen major floods have occurred in the Truckee Meadows since 1862 when records were first kept. Our region has experienced major flood events every decade since the 1950s.

While some types of seasonal flood-related damage occurs every year, the flooding events of 1986, 1997, and 2005 represent the most recent significant flooding. In 1997, prolonged precipitation accompanied by an early snowmelt, caused by a warm-weather trend known as the "Pineapple Express" caused the Truckee River, Steamboat Creek, Boynton Slough, North Truckee Drain and several other tributaries throughout the Truckee Meadows to rise above 100-year flood levels, causing flooding in both rural and urban areas. Over 7,000 acres of land were flooded and damages were estimated to be over 700 million through out the Truckee Meadows region and over 1 billion over six counties. Washoe County estimated that the flood of 1997 affected over one-half of the overall County population.

## Causes of Flooding

Flooding occurs when climate (or weather patterns), geology and hydrology combine to create conditions where river and stream waters flow outside of their normal course and "overspill" beyond their banks. In Washoe County, the combination of these factors create chronic seasonal flooding conditions.

Flooding is most common December through March in Washoe County when storms encompassed with warmer temperatures and heavy rainfall come over the snow-packed Sierra Nevada mountains. Larger floods result from the heavier rains that continue over the course of several days, incorporated with snowmelt at a time when the soil is near saturation from previous precipitation.

Riverine flooding and urban flooding are the two types of flooding that primarily affect Washoe County. Riverine flooding is the overbank flooding of rivers and streams, the natural process of which adds sediments and nutrients to fertile floodplain areas. Urban flooding results from the conversion of land from fields or vacant land to buildings, parking lots and roads, though which the land loses its ability to absorb rainfall and the water runoff from the storms causes increased water in the low-lying areas.

## Flood Insurance

Washoe County participates in the National Flood Insurance Program (NFIP) that makes available federally backed flood insurance for all structures, whether or not they are located within the floodplain. NFIP has claims that are filed by properties located outside the 100 -year floodplain, also known as the Special Flood Hazard Area (SFHA). Following the purchase of flood insurance, NFIP imposes a 30 -day waiting period, so residents should purchase insurance before the onset of the rainy season to insure coverage during the flooding season.

Participation in the NFIP (and thus the availability of flood insurance to County residents) requires the County to manage its floodplain in ways that meet or exceed standards set by FEMA. NFIP insures building with two types of coverage: structural and contents. Structural coverage includes walls, floors, insulation, furnace and other items permanently attached to the structure. Contents coverage may be purchased separately to cover the contents of an insurable building. Flood insurance also pays a portion of the costs of actions taken to prevent flood damage.

Since July 1, 1997, all NFIP policies include Increased Cost of Compliance coverage that assists with bringing structures into compliance with current building standards, such as elevating structures 1 foot or more above the height of the 100 -year flood. The limit of this coverage is $\$ 30,000$.

Federal financial assistance requires the purchase of flood insurance for buildings located within the SFHA-a requirement that affects nearly all mortgages financed through commercial lending institutions. This mandatory requirement stipulates that structural coverage be purchased equal to the amount of the loan, or other financial assistance, or for the maximum amount available, which is currently $\$ 250,000$ for a single family residence. While the mandatory flood insurance purchase requirement has been in effect for many years, not all lending institutions have required flood insurance in the past. Today, however, most institutions are now requiring the flood insurance purchase, and some are reviewing all mortgage loans to determine whether flood insurance is required and should have been required in the past. Upon refinancing a loan, nearly all lending institutions will enforce the flood insurance requirement. It is the lender's responsibility to check the Flood Insurance Rate Map (FIRM) to determine whether a structure is within the SFHA.

The mandatory flood insurance purchase requirement does not apply to loans or financial assistance for items that are not eligible for flood insurance coverage, such as vehicles, business expenses, landscaping and vacant lots. The requirement also does not apply to loans for structures not located in a SFHA, even though a portion of the lot may be within a SFHA. Persons located within SFHA's who received disaster assistance after Sept. 23, 1994 for flood losses to real or personal property must purchase and maintain flood insurance coverage, otherwise future disaster assistance will be denied.

## Floodplain Operations

Maintaining the flow capacity in streams that cross County properties requires cooperation and assistance to prevent flooding and bank erosion. Following are some suggestions and information for understanding the ways that floodplains function and how the County regulates the floodplain in order to protect property and lives, while affording County citizens the ability to obtain floodplain insurance.

Do not dump or throw anything into ditches or streams: A plugged channel cannot carry water, and when it rains, the excess water must go somewhere. Trash and vegetation dumped into a stream degrades water quality of both the stream itself and its receiving waters, and every piece of trash contributes to flooding. The County has adopted and enforces regulations that prohibit the illegal dumping of material, including material dumped into ditches, streams of other drainage ways. Please report any observations of the dumping of debris or other objects into streams, drainage ways, or rivers to Washoe County Community Services Department at (775) 328-2040.

Remove debris, trash, loose branches and vegetation: Keep banks clear of debris to help maintain an unobstructed flow of water in stream channels. Do not remove vegetation that is actively growing on a stream bank. Streamside vegetation is tightly regulated by local, state and federal regulations. Before undertaking any removal of streamside vegetation, contact the Washoe County Community Services Department at (775) 328-2040 and the Corp of Engineers at (775) 784-5307. Please report any observations of the clearing of vegetation or trees on stream banks to the Washoe County Community Services Department.

Obtain a grading permit and/or building permit, if required: To minimize damage to structures during flood events, the County requires all new construction in the floodplain to be anchored against movement by floodwaters, resistant to flood forces, constructed with flood-resistant materials and flood-proofed or elevated so that the first floor of living space, as well as all mechanical services, is at least 1 foot above the elevation of the 100 -year flood. These standards apply to new structures and to substantial improvements of existing structures. The County defines a Substantial Improvement as any reconstruction, rehabilitation, or addition to an existing structure, the cost of which exceeds 50 percent of the structure's appraised or market value. Additionally, most other types of development within the floodplain also require a grading permit which includes cut and fill, installation of riprap and other bank stabilization techniques. County staff is available to undertake site visits, if required, to review flood drainage and grading issues. Contact the Washoe County Community Services Department at (775) 3282040 for information and prior to undertaking any activity within the floodplain or if you see nonpermitted building or filling in the floodplain.

Recognize the natural and beneficial functions of floodplains to help reduce flooding: Floodplains are a natural component of the Washoe County environment. To understand and protect the natural functions of floodplains helps reduce flood damage and protect resources. When flooding spreads out across the floodplain, its energy is dissipated, which results in lower flood flows downstream, reduced erosion of the stream bank and channel, deposition of sediments higher in the watershed and improved groundwater recharge. Floodplains are scenic, valued wildlife habitat, and suitable for farming. Poorly planned development in floodplains can lead to stream bank erosion, loss of valuable property, increased risk of flooding to downstream properties and degradation of water quality.

Reduce risk of damage to homes: Practical and cost-effective methods for reducing or eliminating the risk of flooding are available to property owners whose homes have experienced damage from flooding in the past, or may experience damage in the future. Such techniques include elevation of the home, relocating the home to higher ground and protecting utilities. For further information, contact the Washoe County Community Services Department at (775) 328-2040. During times of flooding, homes that have
not been retrofitted can be protected during emergencies by the installation of sandbags. For further information about sandbags and the locations of sites where sandbags are available during flooding, contact Washoe County Community Services Department or visit our Web site at:
www.washoecounty.us/em/ In case of an emergency, call 911.
County floodplain information services: The County can determine the relationship of a particular property to the floodplain, including: 1) whether the property is located within the Special Flood Hazard Area; 2) Flood Insurance Rate Map (FIRM) Zone for the property; 3) Base Flood Elevation for a property, if available; and 4) whether the property is located within the Floodway. The County also maintains elevation certificates for review, if available. Contact the Washoe County Community Services Department at (775) 328-2040 for information. All of this information can also be accesses through "Washoe County FEMA DFIRM Map", a database program for public access located on the Washoe County web site at: http://wcgisweb.washoecounty.us/fema/.

The County has flood warning information available that can be accessed through our Web site at: www.washoecounty.us/em/ The Web site includes information about sandbag locations and ways to contact and listen to the National Weather Service. It also has an informational brochure that explains how people can prepare for an emergency.

## Consideration during flooding events

Prepare an evacuation plan: Before the floodwaters hit, develop an evacuation plan among all members of a household that includes a meeting place outside of the house, as well as an escape route out of the floodplain and away from floodwaters.

Do not walk through flowing water: Drowning is the number one cause of flood deaths, mostly during flash floods. Currents can be deceptive; six inches of moving water can knock you off your feet. If you walk in standing water, use a pole or stick to ensure that the ground is still there.

Do not drive through a flooded area: More people drown in their cars than anywhere else. Don't drive around road barriers; the road or bridge may be washed out.

Stay away from power lines and electrical wires: The number two flood killer after drowning is electrocution. Electrical current can travel through water. Report downed power lines to the Sierra pacific Power Company or your utility provider.

Shut off gas and electricity and move valuable contents upstairs: Be prepared in advance with a detailed checklist because warning of an impending flood may provide little time for preparation prior to evacuation. Use a flashlight to inspect for damage. Don't smoke or use candles, lanterns of open flames unless you know that the gas has been turned off and the area had been ventilated

Look out for animals, especially snakes: Small animals that have been flooded out of their homes may seek shelter in yours. Use a pole or stick to poke and turn things over and scare away small animals.

Look before you step: After a flood, the ground and floors are covered with debris including broken bottles and nails. Floors and stairs that have been covered with mud can be very slippery.

For more information, see attach brochure.

## Contact Information

If you would like to learn more about flood information, insurance and/or safety, please contact or visit the website links of the different organizations:

1) Washoe County Emergency Management

Phone: (775) 328-2040
Web: http://www.washoecounty.us/em/
2) Washoe County Internet Flood Management Information

Phone: (775) 328-2040
Web: https://www.washoecounty.us/csd/engineering capitalprojects/floodplain management.php
3) FloodSmart.gov NFIP

Phone: (888) 379-9531
Web: http://floodsmart.gov/floodsmart/
4) Truckee Meadows Flood Awareness

Web: http://www.floodawareness.com/
5) Truckee River Flood Project

Web: http://www.truckeeflood.us/
6) Floodplain Management Association

Web: http://www.floodplain.org/
7) Association of State Floodplain Managers

Web: http://www.floods.org/
8) U.S. Army Corps of Engineers

Web: http://www.usace.army.mil/
9) Nevada Floodplain Management Program

Phone: (775) 687-4380 ext. 232
Web: http://water.nv.gov/programs/flood/
10) State of Nevada Dams and Dam Safety

Phone: (775) 684-2800
Web: http://water.nv.gov/programs/dams/index.cfm

WASHOE COUNTY COMMUNITY SERVICES DEPARTMENT

Engineering and Capital Projects Division

1001 East $9^{\text {th }}$ Street PO Box 11130 Reno, Nevada 89520 Telephone: (775) 328-2040 Fax: (775) 328-3699

## The Mandatory Purchase of Flood Insurance Requirement

NFIP: This community participates in the National Flood Insurance Program (NFIP) which makes federally backed flood insurance available for all eligible buildings, whether they are in a floodplain or not. Flood insurance covers direct losses caused by surface flooding, including a river flowing over its banks, a lake or ocean storm, and local drainage problems.

The NFIP insures buildings, including mobile homes, with two types of coverage: building and contents. Building coverage is for the walls, floors, insulation, furnace, and other items permanently attached to the structure. Contents coverage may be purchased separately, if the contents are in an insurable building.

Mandatory Purchase Requirement: The Flood Disaster Protection Act of 1973 and the National Flood Insurance Reform Act of 1994 made the purchase of flood insurance mandatory for Federally backed mortgages on buildings located in Special Flood Hazard Areas (SFHAs). It also affects all forms of Federal or Federally related financial assistance for buildings located in SFHAs. The SFHA is the base (100-year) floodplain mapped on a Flood Insurance Rate Map (FIRM). It is shown as one or more zones that begin with the letter "A" or "V".

The requirement applies to secured mortgage loans from financial institutions, such as commercial lenders, savings and loan associations, savings banks, and credit unions that are regulated, supervised or insured by Federal agencies such as the Federal Deposit Insurance Corporation and the Office of Thrift Supervision. It also applies to all mortgage loans purchased by Fannie Mae or Freddie Mac in the secondary mortgage market.

Federal financial assistance programs affected by the laws include loans and grants from agencies such as the Department of Veterans Affairs, Farmers Home Administration, Federal Housing Administration, Small Business Administration, and the Department of Homeland Security's FEMA.

How it Works: Lenders are required to complete a Standard Flood Hazard Determination (SFHD) form whenever they make, increase, extend, or renew a mortgage, home equity, home improvement, commercial, or farm credit loan to determine if the building or manufactured (mobile) home is in an SFHA. It is the Federal agency's or the lender's responsibility to check the current Flood Insurance Rate Map (FIRM) to determine if the building is in an SFHA. Copies of the FIRM are available for review in most local government building of planning departments. Lenders may also have copies or they may use a flood zone determination company to provide the SFHD form.

If the building is in an SFHA, the Federal agency or lender is required by law to require the recipient to purchase a flood insurance policy on the building. Federal regulations require building coverage equal to the amount of the loan (excluding appraised value of the land) or the maximum amount of insurance available from the NFIP, whichever is less. The maximum amount available for a single-family residence is $\$ 250,000$. Government-sponsored enterprises, such as Freddie Mac and Fannie Mae, have stricter requirements.

Over...

The mandatory purchase requirement does not affect loans or financial assistance for items that are not covered by a flood insurance policy, such as vehicles, business expenses, landscaping, and vacant lots. It does not affect loans for buildings that are not in an SFHA, even though a portion of the lot may be. While not mandated by law, a lender may require a flood insurance policy, as a condition of a loan, for a property in any zone on a FIRM.

If a person feels that an SFHD form incorrectly places the property in the SFHA, he or she may request a Letter of Determination Review from FEMA. This must be submitted within 45 days of the determination. More information can be found at http://www.fema.gov/plan/prevent/index.shtm.

WASHOE COUNTY COMMUNITY SERVICES DEPARTMENT

Engineering and Capital Projects Division

1001 East $9^{\text {th }}$ Street PO Box 11130 Reno, Nevada 89520 Telephone: (775) 328-2040 Fax: (775) 328-3699

Date: $\qquad$
RE: Flood Insurance Rate Map Information
To WHOM IT MAY CONCERN:
The property located at: $\qquad$ , also known as has been located on the Flood Insurance Rate Map (FIRM). The following information is provided:

Washoe County community number: 320019
The property is located on panel number: $\qquad$ , Suffix: $\qquad$ .

The date of the FIRM index: $\qquad$ .

The property is located in FIRM zone: $\qquad$ .

The $\qquad$ on the property:
appears to be located in a Special Flood Hazard Area (SFHA). Federal law requires that a flood zone determination be done as a condition of a federally backed mortgage to determine if the structure is in an SFHA and if so, to require flood insurance. It is up to the lender to determine whether flood insurance is required for a property.
$\qquad$ appears to be located outside of the Special Flood Hazard Area. However, the property may still be subject to local drainage problems or other unmapped flood hazard. Flood insurance from the NFIP is available at non-floodplain rates. A flood insurance policy can still be required by a lender.

A decision about the structure's exact location cannot be made on the FIRM. A copy of the FIRM is attached for your information.

Flood insurance from the NFIP is available for any property in Washoe County. More information on flood insurance is attached. This office has copies of FEMA Elevation Certificates for all buildings constructed in the SFHA after August 1,1984. Questions on this letter and the County's floodplain management program are welcome at this office by calling 775-328-2040.

This information is based on the Flood Insurance Rate Map for the County. This letter does not imply that the referenced property will or will not be free from flooding or damage. A property not in a Special Flood Hazard Area may be damaged by a flood greater than that predicted on the FIRM or from a local drainage problem not shown on the map.

[^0]
management program. YOU , t have to live in a floodplain to purchase flood insurance.
Approximately $30 \%$ of all flood insurance claims nationwide occur outside of the Special Flood Hazard Area. Property owners can insure their buildings and contents, and renters can insure their possessions. Keep in mind, there is a 30 day waiting period before a flood insurance policy takes effect, so do not get caught applying for flood insurance the day before the storm. For more information, call your local insurance agent or the NFIP at
$(800) 638-6620$.
FOR MORE INFORMATION ON FLOOD AND FLOOD-
PLAINS

- Washoe County Emergency Management Website: Phone: (775) 337-5898
Web: http://www.washoecounty.us/em/
Washoe County Floodplain Information
Web: https://www.washoecounty.us/esd/
engineering capitalprojects/floodplain managemen
-Federal Emergency Management Agency (FEMA)
Phone: (888://www.fema.gov/national-flood-
insurance-program/
- Truckee Meadows Flood Awareness:

- Truckee River Flood Project:
-Floodplain Management Association:
Web: http://www.floodplain.org/
- Association of State Floodplain Managers :
Web: http://www.floods.org/
-U.S. Army Corps of Engineers:
Web: http://www,usace.army.mil/
- Nevada Floodplain Management Program Phone: (775) 687-4380 ext. 232
Web: http://water.nv.gov/prog
Web: http://water.nv.gov/programs/Flood
During the aftermath of a flooding event, follow these steps to
aid your family's safety:
- Before entering a building, check for structural damage. Make sure it is not in danger of collapsing. Turn off any outside gas sure it is not in danger of collapsing. Turn off any outside ga
lines at the meter or tank, and let the house air for several
Avoid downed power lines and broken gas lines. Report them immediately to the electric or gas company, police or fire depart ment.
- Upon entering the building, DO NOT use an open flame as a light source since gas may be trapped inside. A battery-operated flashlight is ideal.
-DO NOT handle live electrical equipment in wet areas. If ap-
pliances or electrical equipment have been in contact with water,
IMPORTANT "DO NOT" THINGS DURING A FLOOD
-DO NOT drive where the water is over the roads. Parts of the road may already be washed out. If your car stalls in a flooded
-DO NOT remain in the car. Abandon it as soon as possible and seek higher ground. Floodwaters can rise rapidly and seep a car (and its occupants) away. Many deaths have resulted from attempts to move stalled vehicles.
-DO NOT drive in areas subject to sudden flooding.
- DO NOT try to cross a flowing stream where water is higher than one foot deep. You could be swept away by strong currents. -DO NOT sightsee in flooded areas and
-DO NOT make unnecessary trips. Use the telephone only for emergencies or to report dangerous conditions.


## DO YOU NEED FLOOD INSURANCE?

Until the 1960's, flood insurance was practically unavailable to home and businesses owners. Since private insurance firms were 1968 to create the National Flood Insurance Program (NFIP). This federal program provided flood insurance at a reasonable cost in exchange for the careful management of flood -prone areas by local communities. Today, you can insure almost any enclosed building and its contents against flood loss, as long as your community is participating in the NFIP.
Flood Insurance is available to Washoe County property owners and renters, who are entitled to a reasonable rate because
Washoe County is and NFIP member and has a floodplain
ber, sandbags should not be stacked against the c walls of a building since, when wet, the bags may create added pressure on the foundation.

- Buy flood insurance! You should contact your property/ casualty agent or broker about eligibility for flood insurance, Generally, there is a 30 day waiting period for this policy to become effective, so don't wait until the flood is coming to apply. - Keep your insurance policies and a list of personal property in a safe place, such as a safety deposit box,. Know the name and
location of the agent who issued these policies.

DURING THE STORM

The safety of your family is the most important consideration. Since floodwaters can rise very rapidly, you should be prepared to storm, the following tips may be helpful:

- Keep a battery powered radio tuned to a local station. Follow emergency instructions as they are given.
- If you are caught in the house by suddenly rising waters, move to the second floor and, if necessary, to the roof. Take warm clothing, a flashlight and a portable radio with you. Then wait for
help. Don't try to svim to safety. Rescue teams will look for you help. Don't try to swim to safety. Rescue teams will look for you.
- When outside the house, remember: WATER DEPTHS DURING FLOODS ARE DECEPTIVE. Try to avoid flooded areas, and DO NOT attempt to walk or drive through floodwaters that are more than knee deep.


## IF, AND ONLY IF, TIME PERMITS

There are several precautionary steps that can be taken:

- Tum off all utilities at the main power switch and close the main gas valve if evacuation appears necessary.
- Fill bathtubs, sinks, and jugs with clean water in case regular supplies are contaminated. You can sanitize these items by first rinsing in bleach.
- Board up windows or protect them with storm shutters or tape to prevent flying glass.

Bring outdoor possessions inside the house or tie them down securely. This includes lawn furniture, garbage cans, grills, and
other movable objects that might be swept away or hurled about. - Stock the car with blankets, first aid kit, flashlights, dry clothing, and any special medication needed by your family. Park

## REMEMBER YOUR ANIMALS

Plan for temporary care of family pets during emergencies. Shel-
ters do not have adequate staff or facilities to care for animals.
Frightened pets may be injured or killed during sever storms.
a radio receiver that you have. facility to warm and inform you of a local emergency event or 24 hours a day. You can purchase these radios at most electronic shops or on the internet.

Radio station for civil alert cmergency radio.
Your civil alert emergency radio will need to be tuned into KKOH-AM 780 which is "primary relay station number one" for Northem Nevada. It will receive and relay any alerts or tests to you.

Emergency Alert System tests. The Emergency Alert System is tested weekly and monthly. If your emergency alert receiver is activated during a real emergency. Tune into your local news radio or TV station for latest emergency. Do not call 911 for non-emergency calls. Please call 334 -
COPS or $337-5800$ instead. COPS or 337-5800 instead. receiver such as take shelter, close doors and windows, etc. IS YOUR PROPERTY IN A FLOOD HAZARD AREA? Special Flood Hazard Areas (SFHA) are defined as the 100 -year floodplain, which is defined as any area that has a one percent year and 10 -year) have a greater chance of occurring in any year and can pose a significant flood hazard to people and property close to channels and strearns. Also, floods larger than the 100 -
year event can occur.

First and foremost, you should become informed as to the flood hazard potential for your property.

## STEPS TO TAKE TODAY

During an emergency, your personal safety is more important than your most valuable property. Take steps now to help your family prepare for an emergency.

## Store these supplies in a safe, accessible location:

First Aid kit and essential medicine
Water and non-perishable food (include baby food and food for
Portable radio, flashlights, extra batteries and non-electric can opener.

- Practice safe routes from your home with all family members and establish a safe place out of the floodplain to meet if you are keep on hand materials such as sandbags, plywood, plastic sheeting, and lumber which can be used to protect property. Remem-

SOME IM. . ГANT INFORMATION ABOUT FLOODING

## N WASHOE COUNTY

The Truckee River has had one major flood event per decade, on ayerage. Fourteen major floods have occurred in the Truckee has experienced major flood events every decade since the 1950 s.

While some types of seasonal flood-related damage occurs every year, the flooding events of 1986, 1997, and 2005 represent the most recent significant flooding. In 1997, prolonged precipitation accompanied by an early snowmelt, caused by a warm-weather trend know as the "Pineapple Express" caused the Truckee River, Steamboat Creek, Boynton Slough, North Truckee Drain and
several other tributaries throughout the Truckee Meadows to rise above 100 -year flood levels, causing flooding in both rural and

 dows region and over 1 bilion over six counties. the oyerall County population.

## CALSES OF FLOODING

Flooding occurs when climate (or weather patterms), geology and hydrology combine to create conditions where river and stream waters flow outside of their normal course and "overspill" beyond their banks. In Washoe County, the combination of these and other factors, create chronic seasonal flooding conditions.

Flooding is most common December through March in Washoe County when storms encompassed with warmer temperatures and heavy rainfall come over the snow-packed Sierra Nevada mountains. Larger floods result from the heavier rains that continue a time when the soil is near saturation from previous precipitation. Riverine flooding and urban flooding are the two types of flooding that primarily affect Washoe County. Riverine flooding is the overbank flooding of rivers and streams, the natural process of which adds sediments and nutrients to fertile floodplain areas. Urban flooding results from the conversion of land from fields or vacant land to buildings, parking lots and roads, though which the
lases its ability to absorb rainfall and the water runoff from the storms causes increased water in the low-lying areas.

## WASHOE COUNTY FLOOD WARNING SYSTEM

For information on what you should do during the response phase
of an emergency, listen to the Emergency Alert System Federal Communications Commission to replace the old Emergency Broadcast System and is a universal tool to route emergency messages to the public swiftly and efficiently.

Civil alcrt emergency radio. A civil alert emergency receiver is

Log In > Transcript
Log In
Transcript

KOLO (ABC) - Reno, NV
KOLO 8 News Now © 5PM

| + Local Market Viewership: 11,865 |
| :--- |
| Local Publicity Value: |
| $\$ 1,202.63$ per 305 |

KOLO 6/2/2016 5:09:30 PM: ... of water in
hours worth of time." so much water... so quickly.... is often too much to handle. "these systems weren't designed ... Media Unavallable so it is reasonable to expect localized flooding associated with those types of stoms that we see in the summer time." that's why this month... washoe county asking people to prepare. and maybe even... keep an eye out for problems. "most commonly the issues happen here in one of the counties ditches or culverts. if one or more of these culverts happens to get clogged with leaves or debris, you're in for a lot of trouble real quick, water can start to rise to the point where it is well above these culverts and you end up
under wathe roadway." "whether it is a tumbleweed or just some weeds in the open ditch next to your property... feel free to either give us a call or take out that
tumble weed." the second part of flash flood
awareness... safety. "we have so many tragic injuries or even deaths related to flooding. not only in our area but throughout the country." we reached washoe county emergency manager aaron kenneston via facetime today. flash flood awareness... safety. "we have so many tragic injuries or even deaths related to flooding. not only in our area but throughout the country." we reached washoe county emergency manager aaron kenneston vla facetime today. "it is very simple, move to high ground and do not enter flooded areas." kenneston also says you should have survival supplies in your home... and your car... should flood waters prevent access to either one. in reno... colin lygren... kolo 8 news now. a missing reno man is safe, and found, after he disappeared while boating in florida. 61-year-old william durden was reported missing last night. just after one this morning flsh and wildlife crews found durden and his boat. durden was rescued and taken to a nearby coast guard station. \#\#\#t a long awaited reno housing development... finally broke ground this afternoon.. the construction starting sooon at rancharrah. the land surrounding the historic mansion will be developed into more than 6 -hundred residential units. there will also be about 25 acres of office space. developers are trying to keep the feel of rancharrah intact... to preserve the legacy of bill harrah. "we wanted to take the reins from him and keep the integrity and the history of the property, keep certain elements, try to tie the mansion and the equestrian center into the entire theme" these higher end homes will range in size from condos to estate lots. the first units will be ready for people to move-in... by late 2017. \#\#\# health officials confirmed this week, a woman infected with the zika virus gave birth to a baby with microcephaly. it al happened in new ...

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# Flood Awareness 

## www.floodawareness.com

## Sand Bag Locations

Information about sandbag locations can also be obtained by calling RenoDirect at (775) 334-2099 for Reno, (775) 328-2180 for Washoe County, and the Sparks Emergency Operations Center at (775) 353-1508. Residents are being requested NOT TO CALL THE EMERGENCY 9-1-1 system for sandbag or flood information in order to keep those phone lines free for life-threatening emergencies.

## City of Sparks

- Cottonwood Park - Spice Island
- Rock Park
- Coney Island - west side of old Costco Building
- Glendale Park
- Standford and Coney Island
- Deming and Kleppe
- Glendale and Franklin Way / Meredith
- 45 Vista
- Kresge Lane and Bergin Way
- Freeport and Steneri
- Freeport between industrial and Marietta
- Glendale east of 21 st southside parking lot
- 1755 Purina Way
- Baring and Del Rosa, Southeast Corner
- Shelly Park - Baring/North Truckee Lane


## Washoe County

- Fire Station \# 5, 1500 Mayberry Drive
- Fire Station \#13, 10575 Silver Lake Boulevard.
- Fire Station \# 14, 12000 Old Virginia Road.
- Fire Station \# 15 (sandbags only), 110 Quartz Lane, Sun Valley.
- Sun Valley General Improvement District (sand only), 4th Avenue, Sun Valley.
- Fire Station \# 161240 Eastlake Boulevard, Washoe Valley.
- Fire Station \#17 500 Rockwell Boulevard, Sparks.
- Fire Station \# 18 on Diamond Peak in Cold Springs.
- NDF Fire Station \#38 on Timberline.
- NDF Verdi Fire Station across from Boomtown.
- Brown-Huffaker VFD 684 Geiger Grade
- Hidden Valley VFD 3255 West Hidden Valley.
- Pleasant Valley VFD 3010 Lakeshore Boulevard.
- Pleasant Valley VFD 12300 Old U.S. Highway 395 South.
- Pleasant Valley Elementary School on West Laramie.
- Silver Lake VFD 11525 Red Rock Road.
- Wadsworth VFD 400 Stampmill, Wadsworth.
- Washoe Valley VFD, 245 Bellvue Road, Washoe Valley.


## City of Reno

- The parking lot near the Nevada Peace Officers Memorial at Idlewild Park, 1900 Idlewild Drive
- The dirt parking lot at Horseman's Park at 2800 Pioneer Drive
- The designated area at Mira Loma Park at 3000 South McCarran Boulevard (follow the signs to the designated area).
- Dorothy McAlinden Park at 12000 Mt. Charleston in Stead.
- The parking lot behind Fire Station \#5 at 1500 Mayberry Drive.
- The parking lot off of Booth Street at Reno High School at 395 Booth Street.


# Flood Awareness www.floodawareness.com 

## Make a kit, make a plan, be prepared!

Supplies should last for at least 3 days. You should be able to get to your kit quickly in case of an evacuation. Consider keeping extra supplies at home in the event of a longer stay at home.
Water
Having enough water is a top prionity.
-Store at least 1 gallon of water per per-
son per day (at least 3 gallons per per-
son, total). If you live in a warm climate
you may need more.
-Change stored water every 6 months so
it stays fresh.
-Store water in clean plastic, fiberglass or
enamel-lined metal containers. Don't use
glass or other breakable containers.
olf you purchase bottled water, keep it in
the original, sealed container. Observe
the "use by" date.

## Food

Stock familiar foods that need no refrigeration or cooking and little or no water to prepare, such as

- Ready-to-eat canned meats, fruits and vegetables
- Canned milk and juices
- Peanut butter, granola bars, crackers and other high-energy foods
- Formula or baby food if you have an infant
- Pet food and additional water for pets

Rotate stored food with your regular sup-
ply so your emergency supply stays fresh

## Hygiene supplies

## Tools \& other supplies

Non-electric can opener
$\square$ Cups, plates, utensils
$\square$ Flashlight and extra batteries
$\square$ Battery-powered radio and extra batteries
$\square$ Matches in a waterproof container
$\square$ Fire extinguisher
$\square$ Plastic sheeting and duct tape
Dust masks or cotton cloths to help filter air
$\square$ Pliers and shut-off wrench for shutting off gas and water supplies
$\square$ Scissors
$\square$ Needles and thread
$\square$ Whistle
$\square$ Compass and local map
$\square$ Paper and pencils
$\square$ Blankets and/or sleeping bags
$\square$ Changes of clothes (be sure to replace these to match the season
$\square$ Sturdy shoes or boots
$\square$ Rain gear and/or outerwear that matches the season (winter hats, gloves)
$\square$ Emergency cash or travelers checks and coins
$\square$ First aid kitRubber glovesPharmaceuticals, essential medications, such as insulin should be included, too
$\square$ A fireproof, waterproof safe for important family documents

## Your family's unique needs

Think about your family's unique needs. Stock other items that would be either necessary or comforting, such as playing cards or board games.

## - Trickee Meadows Flood Awareness

The site was created to provide information regarding flood safety and awareness. You will find tips on how to keep your family and business flood safe, flood zone maps, helpful information from FEMA (The Federal Emergency Management Agency), emergency contacts and more.

```
* Where To Get Sand Bags
* FEMA Flood Zone Maps - Locate Your
    Home
* Driving Flood Safe
* FEMA Flood Insurance Information
* Keeping Your Business and Structure
    Safe
* Keeping Your Family Flood Safe
* Tips on How to Stay Flood Safe
* How To Be Prepared
* Contacts
* Glossary of Terms
```


## - Quick Links

Watch 2011 TV Spot Here

- Flood Sapety Tins

SAND BAG RETURN INFORMATION -Reno Sparks \& Washoe County

FLASH FLOOD WATCH INFORMATION - click here FLASH FLOOD GUIDANCE INFORMATION - click here

- California Nevada River Forecast Center
- National Weather Service: Western Region
- National Weather Service: Reno, Nevada
- Nevada Division of Water Resources
- Nevada Floodplain Managers
- National Red Cross
- Nevada Red Cross
- Nevada Division of Water Resources Water Words Dictionary
- Floodsmart.gov-Official site of the National Flood Insurance Program
- Truckee River Flood Project Website
- Truckee River Flood Management Project Contact List
- Make a Kit Information
- Make a Plan Information

2005 Food Boundary Extent Map - East Click Hare

- 2005 Fiood Boundary Extent Map - West Cllck Here

FLOOD PREPAREDNESS QUICK TIPS

- Check List for Kit
- Stay Informed
- Get Involved
$\square$ Sponsored By


TRUCXE IIER FIOOD PROLEL


## TRUCKEE MEADOWS FLOOD AWARENESS Sponsored by Truchee River flood Project

Home | Glossary of Terms |
| :---: | :---: |

## Where To Get Sand Bags

4 How to properly sand bag

+ FEMA Flood Zone Maps - Locate Your Home
- Driving Flood Safe
- FEMA Flood Insurance Information
* Keeping Your Business and Structure Safe
* Keeping Your Family Flood Safe
* Tips on How to Stay Flood Safe
- How To Be Prepared
- Contacts
- Glossary of Terms


## IRFP / Where To Get Sand Baqs

## * Where To Get Sand Bags



 NUMCEIS LISTEO ABCVE TO VCRIFT TMAT A LOCATION IS OPEN PRIOR TO AAKLVAL.

## Sand Bag Location Map . Washoe County

Be sure to bring a shovel to all sand bag locations!!

## - Sand Bag Return Information

Please return sandbags to the following locations and within the jurisdiction (City of Reno, City of Sparks, Washoe County) location in which you picked them up.

Caty of Reno

- Governers Bowl Parking Area- End of Line Drive off of E. 4th 5t. Parking area

City of Sparks
Do not raturn any mendbagn to the Sparka lecetion they heve been remaved. Sen Eelow Information

Businesses/Residents within the Industrial area of Sparks may place sandbags on the curb of the nearest City of Sparks street. Please do not place the sand bags in the travel ane, sidewalks or on pallets. The bags will be lifted by personnel into loaders for disposal. City personnel will be loading the sandbags beginning today, December 3, through Friday. December $14^{\text {th }}$

Washoe County

- VDF Fire Station $=13,10575$ Silver Lake Boulevard
- TM Fire Station $=14,12000$ Oid Virginia Road
- Sun Valley General Improvement District, 4th Avenue, Sun Valley
- Reno Station 5-1500 Mayberry Dr.
- TM Fire Station $=161240$ Eastiake Boulevard, Washoe Valley
- TM Fire Station $=17500$ Rockwell Boulevard, Sparks
- TM Fire Station $=18$ on Diamond Peak in Cold Springs
* NDF Fire Station $=38-16255 \mathrm{Mt}$. Rose Hwy.
- NDF Verdi Fire Station $=35$ across from Boomtown
- Toll Rd-Hwy 341 Intersection
- Hidden Valley VFD 3255 West Hidden Valley
- TM Fire Station 2273010 Lakeshore Boulevard
- Pleasant Valley VFD 12300 Old U.S. Highway 395 South
- Pleasant Valey VFD 12300 Oid U.S. Highway 395 So
- Sleasant Valley Elementary School on W
- Wadsworth VFD 400 Stampmill, Wadswort
- Washoe Valley VFD, 245 Bellvue Road, Washoe Valley
- Bartey Ranch Park - 6000 Bartey Ranch Rd off Lakeside Dr.
* Andrew Lane - Paddewheel Ln. Intersection
- E. Golden Valley - Golden Valley Rd \& Estate Dr. Intersection
* Washoe County Yard - 3101 Longley Lane
- TMWA - 9675 Western Skies Dr.

Local emergency managers are urging residents to maintain a state of preparedness including the ability to shelter in place at home by having enough food, water and other supplies on hand for at least three days. Residents are also being advised to avoid driving during storm conditions and to avoid walking through or taking vehides through any areas of standing
water.
Washoe County Roads Department
3101 Longley Lane, Reno, NV
Phone: (775) 328-2180
City of Reno Corporate Yard
1640 E. Commercial Row, Reno, NV
Phone: (775) 334-2243



$$
\begin{aligned}
& \text { Stay Safe During a Flood } \\
& \text { Here's what you can do } \\
& \text { to stay safe during a flood: }
\end{aligned} \begin{aligned}
& \text { - If flooding occurs, go to higher ground and } \\
& \text { avoid areas subject to flooding such as } \\
& \text { stream or drainage channels or canyons. } \\
& \text { - Do not attempt to walk across flowing } \\
& \text { streams or drive through flooded } \\
& \text { roadways. } \\
& \text { Watch TV or listen to a battery-operated } \\
& \text { radio for the latest storm information. } \\
& \text { Turn off all utilities at the main power } \\
& \text { switch and close the main gas valve if } \\
& \text { advised to do so. Don't touch electrical } \\
& \text { appliances that are wet or standing in } \\
& \text { water. } \\
& \text { If you've come in contact with } \\
& \text { floodwaters, wash your hands with soap } \\
& \text { and disinfected water. }
\end{aligned}
$$




## Nevada Floods!

In Nevada, we have both flash floods and river floods even though we live in the Great Basin Desert. Flash floods occur in canyons and on
alluvial fans, usually from summer
thunderstorms. Valley bottom river floods
usually occur in winter, after large "rain-on-snow storm events."

Whether you live near the foot of a mountain range or on a broad valley floor, you should
make preparations ahead of time for damaging
 to purchase flood insurance.

## Purchase Flood Insurance

## әэиелnsu! sıәuмоашоч prepuets $750 \mathrm{~N} \Leftarrow$

policies do not cover flood damage.
$\Rightarrow$ If you live in a Special Flood Hazard Area (SFHA), a high risk floodplain, and have a Federally backed mortgage, your mortgage lender requires you to have flood insurance.

To find out if you live in a SFHA, check out "Know your Risk" at www.nevadafloods.org or checking with your insurance agent.
$\Rightarrow$ If you live in a SFHA, your home has a $26 \%$ chance of being damaged by a flood during the course of a 30 -year mortgage compared to a $9 \%$ risk of fire.

You are eligible to purchase flood insurance as long as your community participates in the

National Flood Insurance Program (NFIP). All
 the NFIP. Consider buying flood insurance if your
property is near a SFHA, even if it's not required.


Truckee River over its banks in Reno.
Photo by David Parker, Reno Gazette Joumal
By:
John Cobourn, Water Resource Specialist
Steven R. Lewis, Extension Educator

## Flood Hazards in <br> Nevada - A Primer



[^1]

## Contact UNCE:

An EEOIAA institution


## www.unce.unr.edu



## Flood Insurance

If you own a home or business in a Zone A series
flood zone, and have a mortgage, you are
required to buy flood insurance. You are eligible
to purchase federally subsidized flood insurance
as long as your county participates in the
National Flood Insurance Program
(www.floodsmart.gov/floodsmart). If your county
does not participate in this program, the cost of
flood insurance will be higher.
Flooded Roads

$$
\begin{aligned}
& \text { In addition to flood } \\
& \text { hazards to your } \\
& \text { property, you should } \quad \begin{array}{l}
\text { More people die in } \\
\text { foods each year than } \\
\text { in any other type of }
\end{array} \\
& \text { be aware of safety } \\
& \text { hazards from flooding } \quad \begin{array}{l}
\text { Between } 1975 \text { and } \\
\text { 2005, an average of }
\end{array} \\
& \text { when you are away } \\
& \text { from home. In any } \\
& \text { situation where } \\
& \text { roadways are } \\
& \text { flooded, it is peach year in the }
\end{aligned}
$$

Nevada Has Three Types of Dangerous Floods

| Main channel (riverine) flooding occurs in valley bottoms during large winter storms, when prolonged heavy rain falls on mountain snowpacks. The New Year's floods of 1997, which caused tens of millions of dollars of damage in the Truckee, Carson and Walker River watersheds, are examples. <br> Alluvial fan flooding occurs along small creeks and usually dry "washes" that emerge from the bottom of mountain canyons. Alluvial fans are susceptible to violent flash floods shortly after intense summer thundershowers. These types of floods are unpredictable. Alluvial fan surfaces are generally convex rather than concave. During a flash flood, former channels can become clogged with rocks and sediment, sending deep, fast-moving floodwater down into new locations. Nearly all neighborhoods on fans are in a potential flood path. <br> ALLUVIAL FAN (FLASH) FLOOD <br> Debris flows are fast moving slurries similar to wet concrete carrying rocks and boulders. They originate on steep slopes during intense rainfall, and can start like an avalanche. They then flow rapidly down canyons, causing catastrophic damage to houses and businesses below. |
| :---: |
|  |  |
|  |  |

## Community Action

as agriculture and parks. On some floodplains, landowners have sold or donated conservation easements that restrict urban development. Growing communities can significantly reduce future flood risk by keeping subdivisions and urban infrastructure out of floodplains. These areas are best suited for open space uses, such





$$
\begin{aligned}
& \text { In the midst of rushing through everyday life, } \\
& \text { it is important to take a minute to prepare for } \\
& \text { emergencies. Being prepared helps you and your } \\
& \text { family minimize the impact of a disaster such as } \\
& \text { an earthquake or an emergency such as a broken } \\
& \text { leg. Knowing what to do is your best protection } \\
& \text { and your responsibility. The best way to make your } \\
& \text { family and your home safe is to be prepared before } \\
& \text { disaster strikes. } \\
& \text {, In our area we have the potential of disasters } \\
& \text { from earthquakes, wildland fire, and weather } \\
& \text { related emergencies. Take time to plan for the } \\
& \text { problems related to each type of disaster. } \\
& \text {, If you have pets make a pet plan. Animals may } \\
& \text { not be allowed inside emergency shelters due } \\
& \text { to health regulations. } \\
& \text {, Find out how to help elderly or disabled person in your home or neighborhood. } \\
& \text {, Ask about disaster plans at your workplace, your children's school or daycare center and other places where } \\
& \text { your family spends time. } \\
& \text { MAKE A FAMILY EM ERGENCY PLAN }
\end{aligned}
$$

in

## EVACUATION -

## MAKE A PLAN IF YOU MUST LEAVE YOUR HOME

) Begin evacuation immediately when the official warning is issued. Your life might be in danger, do not waste time in leaving your home.
) Have a place to go-home of a family member or friend, or a shelter. Plan your route before the disaster.
> Listen to the AM radio for updates of the situation.
> Notify family or friends of your plans if possible. Tell them when you are leaving and where you are going.
> Use travel routes specified by local officials (see attached map for routes). Know where you are going before you leave.
, Bring extra cash. Banks may be closed, ATMs may not work.
, Take your disaster supplies kit.
, Secure and lock your home before you leave.
11) > Bring toys, books and games for entertainment.
> If driving in smoke, turn on headlights, move as far to the right as possible and drive slowly.
> When you arrive at a shelter make sure you register with official personnel.
> Don't panic, drive slowly and arrive safely at your destination.

## SHELTER -

MAKE A PLAN IF YOU MUST STAY AND SHELTER IN PLACE.
> Have your disaster supplies kit in hand, including pet supplies.
, You need to store at least a three-day supply of water for each person in your household. Stored water should be changed every six months.
, Notify family or friends of the situation if possible.
, Work with neighbors to develop a neighborhood plan that keeps everyone informed.
> Listen to your battery operated radio for emergency updates.
> Once you have decided to stay, remain in your home until the emergency is over.

## EAS RADIO STATIONS -

KKOH 780 AM
KUNR 88.9 FM

For purposes of evacuation and shelter planning, Washoe County is divided into several sectors. The attached map depicts general evacuation directions and preplanned shelters. However, when a crisis occurs, local public safety personnel will identify official shelters and routes based on the current situation.

Sector 1 North of the Truckee River, and west of US 395. The two primary shelters are McQueen and Hug High Schools. The primary large animal shelter areas are the UNR Fields and the Livestock Events Center. Lawlor Events Center is designated as a potential large-scale shelter. Evacuation routes lead away from the river and downtown areas north generally along McCarran and Virginia/US 395.

Sector 1 A Verdi/Mogul area. Residents of this area will use Sector 1 shelters/routes. If passage to Sector 1 is blocked, options included movement to Truckee, California; or temporary refuge on high ground in the Dog Valley area.

Sector 2 North of the Truckee River, and east of US 395. The primary shelters are North Valleys, Spanish Springs, Reed, and Sparks High Schools. The primary large animal shelter areas are Lazy 5 Regional Park, Lemmon Valley Horseman's Arena, and Gandolfo Rodeo Arena. Evacuation routes lead away from the river and downtown Sparks north generally along US 395 and Pyramid Lake Highway.

Sector 3 South of the Truckee River, and west of US 395. The primary shelters are Reno, and Wooster High Schools. The primary large animal shelter is Bartley Ranch Regional Park. The Convention Center is designated as a potential large-scale shelter. Evacuation routes in this region lead away from the river and downtown area south generally along Virginia/US 395 .

Sector 4 South of the Truckee River, and east of US 395. The primary shelter is Damonte High School. The primary large animal shelter is Hidden Valley Regional Park. Evacuation routes in this region will proceed south generally along Virginia/US 395 .

Sector 5 Washoe Lake area. Residents in this area will proceed either north into Sectors 3 or 4 ; or if that direction is unsafe, south towards Carson City. Potential shelters include Galena or Damonte Ranch High Schools, or Carson City High School in neighboring Carson City County. The primary large animal shelter is Washoe Lake State Park.

Sector 6 Incline Village/Crystal Bay. The primary Shelter is the Incline Village High School. Additional shelter areas are the Community Center and Ski Beach. Evacuations routes are HWY 431, or SR 28 towards either Kings Beach or South Lake Tahoe.

Sector 7 A Wadsworth/Nixon area. It includes the Tribal Nation of the Pyramid Lake Paiute Tribe. If residents have to leave this area, potential shelter sites include Reed High School in Sparks, or Fernley High School in neighboring Lyon County.

Sector $7 B$ Antelope Valley/Rancho Haven area. The Cold Springs Middle School is a designated shelter for this sector.

Sector 7 C Gerlach/Empire area. The Gerlach High School is a designated shelter for this sector.

Since no single method of communication is failsafe, regional public safety officials use a combination of 5 methods to keep the public informed during an emergency.

1- Local government Public Information Officers (PIO) gather key information from first responders and elected officials and produce press releases that are then broadcast by local media outlets.

2- Emergency Managers can initiate the Emergency Alert System (EAS). This system interrupts local radio and television broadcasts with emergency alerts and instructions to the public.

3- Public Safety Officials can directly broadcast messages over the government cable channels (channels 13,15 \& 17) from the Regional Emergency Operations Center (REOC).


4- First Responders and credentialed volunteers can go door-to-door alerting citizens of impending hazards.

5- The City Watch system can be used to automatically telephone residents and relay emergency information.

The City Watch Notification System is a computer system that calls telephones in a particular geographic area, and plays a recorded message. However, there are two issues to consider- availability of electric utility power, and ability of the system to contact a particular type of telephone.

In an emergency, the electric utility power may fail at any time. This means that any telephone which relies on electric utility power to function will not work.

The City Watch system can only contact hardwired telephones (so-called "wireline" or "PSTN" phones) which are serviced by SBC, ATT, or another local telephone company. You can, however, enter your cell phone number into the database on the following web site: www.ReadyWashoe.com Click on the "regional notification" tab, and follow the instructions to enter your telephone number of choice.

Again, there is no guarantee that every citizen can be contacted, but with these 5 methods regional officials can quickly notify large sections of the local population.

## The EAS Local Primary Stations

In an emergency tune to: KKOH 780 AM
KUNR 88.9 FM




## FLU PANDEMICS

A flu pandemic is when a new flu strain starts spreading quickly around the world. Depending on the strength of the strain, it can cause many people to become severely ill or die. It may cause a short supply of food, goods, and services if many workers stay at home or travel is restricted. Medical services will certainly become overwhelmed.

The flu spreads mainly through coughing and sneezing. People can also leave the virus on things they touch if they have flu germs on their hands.

Catching the flu from an infected animal is rare, but if pandemic flu (like Avian Flu) evolved so it could infect humans, it could start a pandemic.

Flu pandemics have happened before. Experts believe that another pandemic is likely. Flu viruses are easily spread. With modern travel, viruses can circle the globe faster than ever.
Take steps to help avoid getting or spreading flu germs:
) Wash your hands often and well
> Cover coughs and sneezes
) Don't share personal items
> Teach children how to protect themselves
) Thoroughly cook meat, poultry, and eggs
) Get available flushots
) Check the news. Officials will announce a pandemic and provide instructions
) Support"common good" efforts. Authorities may make decisions in a pandemic to restrict gatherings (Schools, movies, sporting events, etc) or asking people stay home. It is important to support these decisions.
To learn more about pandemic flu, go to www.pandemicflu.gov

## WEATHER RELATED EXTREME HEAT

Temperatures that hover 10 degrees or more above the average high temperature and last for several weeks are defined as extreme heat conditions.

Heat disorders occur because a person has been overexposed to heat, has over-exercised, or has been exposed to high temperatures and poor air quality. Children, the elderly, and individuals with medical problems are at greatest risk when exposed to extreme heat.

Some things you can do to protect yourself and others from extreme heat are:
) Stay indoors. If air conditioning is not available, stay on the lowest level out of the sunshine.
>Drink plenty of water. People with medical conditions should consult their doctors before significantly increasing their liquid intake.
> Limit intake of alcoholic beverages.
> Dress in loose fitting, lightweight and light colored clothes that cover as muth skin as possible.
> Wear a wide brimmed hat to protect the face and head.
) Avoid too much sunshine and use sunscreen with a high SPF rating.
) Reduce, eliminate or reschedule strenuous activities. Get plenty of rest to allow your natural"cooling system" to work.


## PRESERVING YOUR FAMILY DOCUMENTS

In a disaster where you might have to leave your home quickly, important documents may be left behind and ultimately destroyed. Before the emergency occurs, decide which records are most essential to you and your family. One factor to consider is how readily a lost record could be replaced. Loss of some records could result in major financial damage (like tax records), or would be irreplaceable (like family photographs and historical documents).

The following is a list of the documents you should safeguard and be able to retrieve quickly to take with you.
> Licenses or other ID's
> Social Security Cards
> Passports
>Medical history information and health insurance cards
> Immunization records
> Birth, marriage and death certificates
> Records of bank accounts
) Credits card information
> Insurance policies
> A list of important or valuable
 belongings
> Wills, contract, deeds
> Records of stocks, bonds or retirement accounts
> Back up of key computer files
In order to ensure that you can quickly retrieve these documents, it is
suggested that you:
> Keep these documents (or copies of these documents) in a water or fire proof container with your disaster kit
> Keep them in a safe place away from home, like a safe deposit box
> Be sure trusted family members know where these items can be found
There are many ways to prepare your essential records for an emergency. Whatever method you use, remember to keep your records updated. At the very least, choose one day each year to make certain they are current and ready to evacuate.





## GENERAL EMERGENCY PREPAREDNESS

An emergency can happen anytime. You and your co-workers should know what to do if an emergency happens at work. Even if you think you are not in a disaster-prone area, something like a chemical tanker truck overturning or a flood can prevent you from getting to or from work. No business should operate without a disaster plan. If you are a business owner developing a business disaster plan, consider how the disaster could affect your employees, customers and the workplace. Consider how you could continue doing business if the area around your facility is closed or streets are impassable. Consider what you would need to serve your customers if your facility closed.

## EMPLOYEES SHOULD:

, Learn and practice emergency plans.
> Know at least two exits from each room (if possible).
> Be able to escape in the dark by knowing, for instance, how many desks or cubicles are between your workstation and two of the nearest exits.
> Know the post-evacuation meeting location.
> Know the location of fire extinguishers and how to use them.
> Keep a copy of co-workers phone numbers at home.
> Make a list of important personal numbers. Keep a printed list at your desk or near other phones. Do not rely on electronic lists, direct-dial phone numbers or computer organizers that may not work in an emergency.
) Gather personal emergency supplies in a desk drawer: Include a flashlight, walking shoes, dust mask, a water bottle and non-perishable food.
> Report safety system damage or malfunctions.
> Never lock or block fire exits or doorways. However, keep fire doors closed to slow the spread of smoke and fire.
> Make specific plans to help each other. Determine how you will help each other in the event that public transportation is shut down or throughways are impassable. Offer to temporarily house, transport or feed your co-workers in case of emergency.

## EMPLOYERS SHOULD:

) Ensure that an emergency plan is developed and practiced at least every six months.
) Make specific plans for employees who are disabled or who may require assistance during an emergency.
) Put together an office phone tree. Develop a list of everyone's home phone numbers and who is responsible for making each contact. Provide a copy for each employee.
) Keep a phone list of all key employees with you at all times.
> If you have a voice mail system, designate one remote number on which you can record messages for employees and provide them the number.
) Arrange for programmable call forwarding for your main business lines.
) Leave keys and the alarm codes with a trusted employee or friend in case you cannot get to your facility.
> Backup computer data frequently.
> Purchase a NOAA Weather Radio with a tone alert system.






## Floodplain Management

## Flooding in Washoe County

The Truckee River, and many smaller streams and tributaries throughout our community, are susceptible to annual flooding events. Washoe County has more than 100,000 acres of floodplain and nearly 4,400 individual parcels that are partially or entirely located within the floodplain. While winter flooding is most common in our community, river and urban flooding can happen anytime of year.

Please download Washoe County's Flood Awareness brochure -- it will help you be prepared in case of a flood.

## National Flood Insurance Program

Washoe County has been a member of the National Flood Insurance Program (NFIP) since 1984. NFIP membership makes available federally-backed flood insurance for all structures, whether or not they are located within the floodplain. Because NFIP imposes a 30-day waiting period, residents should plan accordingly to ensure coverage during the flooding season.

Please read our July 2014 letter about the mandatory purchase of flood insurance requirement and a related letter that seeks to assist citizens with understanding floods, the floodplain, and flood insurance.

## FEMA's Community Rating System Benefits

In May 2009, Washoe County qualified to be part of the FEMA Community Rating System (CRS). The program rewards communities that initiate more than the minimum NFIP requirements to help citizens prevent or reduce flood loses. Washoe County qualified for CRS Class 7 which provides the unincorporated Washoe County residents $15 \%$ discounts on flood insurance premiums. CRS Class 7 rating will save the Washoe County flood policy holders about $\$ 100,000$ per year.

The goal of the CRS is to encourage, by use of Flood Insurance Premiums reductions, community and state activities beyond those required by the NFIP to reduce flood loses, to facilitate accurate insurance rating and to promote awareness of the availability to purchase flood insurance.

## Flood Insurance Rate Maps

Flood Insurance Rate Maps are the official community maps on which FEMA has delineated both the special hazard areas and the risk premium zones applicable to a community. The CSD Engineering \& Capital Projects Division is the repository for the Flood Insurance Rate Maps for Washoe County; these maps can be viewed online or reviewed in our office.

## For More Information

The Truckee River Flood Project is a joint effort between Reno, Sparks, Washoe County, the US Army Corps of Engineers, and numerous stakeholders to reduce the impact of flooding in the Truckee Meadows, restore the Truckee River ecosystem, and improve recreational opportunities by managing the development and implementation of the Truckee River Flood Control.

Nevada Floods seeks to raise awareness among residents of the serious flooding that happens regularly in our state.

## Dam Safety Video

Nevada Dam Safety Video, click here to view.


## Corbridge, Kimble


_ent:
To:

Cc:
Subject:

Robin K. Palmer [rkpalmer@water.nv.gov](mailto:rkpalmer@water.nv.gov) Saturday, November 07, 2015 9:15 AM
Robin K. Palmer; 'Theresa Jones'; 'John Cobourn'; Corbridge, Kimble; Vesely, Leo;
'Lohmann, Edith'; Henderson, Danielle; 'Bridget Bliss'; Shannon McDaniel; Bunny Souza;
'Mark Faucette - NOAA Federal'; Sherrean K. Whipple; Gail E. Powell; Evans, Ed
Edmund Quaglieri
FW: Reno Fall Home and Lifestyle Show November 7 and 8, 2015

All,
Below is the updated list for the Reno Fall Home and Lifestyle Show for Nov. $7^{\text {th }}$ and $8^{\text {th }}$.
Sunday Nov. 8 the show ends at 5 pm . My apologies for the confusion.
Thanks again for your participation!
Contact me on my cell if you have any questions or if your plans change. 775-432-5220.
See you soon,
Rob

The staffing schedule is as follows:

## Saturday

Team Lead: Rob Palmer 775-432-5220, (Shift-10am to 7:00pm)
10am-11:00am Rob Palmer: Complete set up
11am-1pm: Theresa Jones, Sherrean Whipple.
$1 \mathrm{pm}-3 \mathrm{pm}$ : Theresa Jones, Kimble Corbridge
3pm-5pm: Danielle and Ed Evans, Mark Faucette
5pm-7pm: Danielle and Ed Evans, Mark Faucette

## Sunday

Team Lead: Bunny Souza 775-848-0989-(Shift 11am to 5:00pm)
11am-1pm: Shannon McDaniel, Leo Vesely
$1 \mathrm{pm}-3 \mathrm{pm}$ : Sherrean Whipple, Shannon McDaniel
3pm-5pm: Danielle, John Cobourn, Ed Evans

Your Exhibitor Passes will be available at the Box Office Registration at the Main entrance on the West side of the Convention Center Building. See the attached "Set up information" document.

I will send an updated list Thursday morning
Thank you for your help and participation.
Please call me if you have any questions.

Rob


Rob Palmer, CFM
State Floodplain Manager/NFIP Coordinator
Nevada Division of Water Resources
901 South Stewart Street, Suite 2002
Carson City, Nevada 89701
Ph. (775) 684-2847, Fax (775) 684-2811
rkpalmer@water.nv.gov
Please Visit http://nevadafloods.org/index.html

## From: Robin K. Palmer

Sent: Thursday, October 29, 2015 4:32 PM
To: 'Theresa Jones'; 'John Cobourn'; 'Corbridge, Kimble'; 'Vesely, Leo'; 'Lohmann, Edith'; 'Danielle Henderson (dhenderson@washoecounty.us)'; 'Bridget Bliss'; Shannon McDaniel; Bunny Souza; 'Mark Faucette - NOAA Federal'; Sherrean K. Whipple; Gail E. Powell; 'eevans@washoecounty.us' Subject: Reno Fall Home and Lifestyle Show November 7 and 8, 2015

All,

The Nevada Flood Awareness team will set up a booth at the Reno Fall Home and lifestyle Show on November 7 (Saturday) and 8 (Sunday).
We have a number of people who have said they would like to help. Danielle Henderson, Bunny Souza, Leo Vesely, Kimble Corbridge, Edie Lohmann, Mark Faucette, Ed Evans, Shannon McDaniel, Bridget Bliss, John Cobourn, Teresa Jones, Sherrean Whipple and
Rob Palmer

We will have the National Weather Service Flood Model, Information and some swag to hand out. The Truckee River Flood Management Authority will be at the booth with the Nevada Division of Water Resources. If you would like to help us, please respond to this email.

We would like to have people work in shifts so no one person is working all day (unless you want to). On Saturday the Show is open from 11:00am to $7: 00 \mathrm{pm}$. Shifts are 11 am to $1 \mathrm{pm}, 1 \mathrm{pm}$ to $3 \mathrm{pm}, 3 \mathrm{pm}$ to 5:00pm and 5pm to 7pm.
On Sunday the Show is open from 11:00am to $5: 00 \mathrm{pm}$. Shifts are 11 am to $1 \mathrm{pm}, 1 \mathrm{pm}$ to $3 \mathrm{pm}, 3 \mathrm{pm}$ to 5:00pm.
You will be able to pick up your Exhibitor credentials at the Show Box Office at the main entrance on the west (Peckham Lane) side of the Reno Sparks Convention Center.

Please let me know what shift (Day and Hours) works best for you. Please respond to "all" in your email back to me.
I will put together a schedule and send it out to on Tuesday of next week at the latest.

Please let me know if you will not be able to help with this event and I will take your name off the list.

Thank you for your help,

Rob

My Cell is 775-432-5220


Rob Palmer, CFM
State Floodplain Manager/NFIP Coordinator
Nevada Division of Water Resources
901 South Stewart Street, Suite 2002
Carson City, Nevada 89701
Ph. (775) 684-2847, Fax (775) 684-2811
rkpalmer@water.nv.gov
Please Visit http://nevadafloods.org/index.html


## CHANGE in KUNR Messages for Oct 30-Nov 7

## For Cooperative Extension messages running from October $7^{\text {th }}$ thru November $18^{\text {th }}$.

## New messages currently running on KUNR:

KUNR receives support from University of Nevada Cooperative Extension, reminding Nevadans that with a strong El Nino in place, we could receive damaging river floods this winter. Are you prepared? You can find out if your home is in a flood-prone area and how to protect your family and community at Nevada floods dot org. [Note slightly revised copy]

KUNR receives support from University of Nevada Cooperative Extension, reminding Nevadans that we can experience damaging flash floods in summer and river floods in winter. Are you prepared? You can find out if your home is in a flood-prone area and how to protect your family at Nevada floods dot org.

## Another new message

KUNR receives support from University of Nevada Cooperative Extension, reminding Nevadans that the New Years Flood of 1997 put 63,800 acres of Nevada under water and caused 619 million dollars in damages. For information about how to protect your family and property before, during and after a flood, visit www dot Nevada floods dot org.

## New messages for October 30-Nov 8 [Dates to run each of the following appear before each ad]

1. Oct 30-Nov 1: ... reminding Nevadans that November first through seventh is Nevada Flood Awareness Week. For a list of family flood awareness events, starting with the North Carson City Walmart on November $1^{\text {st }}$ from 1 till 3 pm, visit www dot Nevada floods dot org.
2. November $2^{\text {nd }}$ thru Nov $5^{\text {th }}: \ldots$ reminding Nevadans that Nevada floods, with devastating results. For the locations of family flood awareness events, including the Yerington Fire Station on November $4^{\text {th }}$ and the North Room of the Douglas County Community Center on November $5^{\text {th }}$, visit www dot Nevada floods dot org
3. November $6^{\text {th }}$ thru the morning of Nov 8th: ...reminding Nevadans that Nevada floods, with devastating results. For details about our flood awareness booth and interactive flood model at the Reno Fall Home Show in the Reno-Sparks Convention Center on November $7^{\text {th }}$ and $8^{\text {th }}$ visit www dot Nevada floods dot org.

After November $7^{\text {th }}$, you can return to the three ads at the top thru November $18^{\text {th }}$.

# NEVADA FLOODS 



## Are you prepared?

## Learn everything you need to know before, during and after a flood.

## Visit

## Flood Awareness Week November 1-7

Be prepared! Go to a flood awareness event near you.
11/1 CARSON CITY - North Carson Walmart $1-3 \mathrm{pm}$ 11/2 BATTLE MOUNTAIN - Civic Center 5:30-7 pm $11 / 4$ YERINGTON - Fire Station $10 \mathrm{am}-3 \mathrm{pm}$ 11/5 GARDNERVILLE - Community Center $11 \mathrm{am}-6: 30 \mathrm{pm}$ 11/7 \& 11/8 RENO - Reno Sparks Convention Center Fall Home \& Lifestyle Show Sat $11 \mathrm{am}-7 \mathrm{pm}$, Sun $11 \mathrm{am}-5 \mathrm{pm}$

## Community Rating System

Activity 360 - Flood Protection Assistance

# WASHOE COUNTY COMMUNITY SERVICES DEPARTMENT 

Engineering and Capital Projects Division

1001 East $9^{\text {th }}$ Street PO Box 11130 Reno, Nevada 89520 Telephone: (775) 328-2040 Fax: (775) 328-3699
November 20, 2015

## Dear Washoe County Resident:

This letter is being sent to you for informational purposes only because our records show that your property is very likely located in a FEMA floodplain. The County is working on ways to improve and increase its circulation and accessibility of information that pertains to the FEMA floodplain, in an effort to better educate and assist its citizens about developing and living in the floodplain. Please take the time to read the information below and if you have further questions, or would like additional information, a variety of contact information has been supplied at the end of this document.

## Overview

The Truckee River is incorporated throughout most of the Truckee Meadows in Washoe County along with several smaller streams and tributaries that are susceptible to annual flooding events. The flooding events pose threats to life and safety and have caused significant property damage. Washoe County has approximately 105,000 acres of floodplain and nearly 4,400 individual parcels that are partially or entirely located within the floodplain. Snowmelt from the Sierra Nevada mountain range contributes substantially to flooding, as well as ongoing development that has displaced natural areas that have historically functioned as flood storage.

## Recent Flooding Events

The Truckee River has had one major flood event per decade, on average. Fourteen major floods have occurred in the Truckee Meadows since 1862 when records were first kept. Our region has experienced major flood events every decade since the 1950s.

While some types of seasonal flood-related damage occurs every year, the flooding events of 1986, 1997, and 2005 represent the most recent significant flooding. In 1997, prolonged precipitation accompanied by an early snowmelt, caused by a warm-weather trend known as the "Pineapple Express" caused the Truckee River, Steamboat Creek, Boynton Slough, North Truckee Drain and several other tributaries throughout the Truckee Meadows to rise above 100-year flood levels, causing flooding in both rural and urban areas. Over 7,000 acres of land were flooded and damages were estimated to be over 700 million through out the Truckee Meadows region and over 1 billion over six counties. Washoe County estimated that the flood of 1997 affected over one-half of the overall County population.

## Causes of Flooding

Flooding occurs when climate (or weather patterns), geology and hydrology combine to create conditions where river and stream waters flow outside of their normal course and "overspill" beyond their banks. In Washoe County, the combination of these factors create chronic seasonal flooding conditions.

Flooding is most common December through March in Washoe County when storms encompassed with warmer temperatures and heavy rainfall come over the snow-packed Sierra Nevada mountains. Larger floods result from the heavier rains that continue over the course of several days, incorporated with snowmelt at a time when the soil is near saturation from previous precipitation.

Riverine flooding and urban flooding are the two types of flooding that primarily affect Washoe County. Riverine flooding is the overbank flooding of rivers and streams, the natural process of which adds sediments and nutrients to fertile floodplain areas. Urban flooding results from the conversion of land from fields or vacant land to buildings, parking lots and roads, though which the land loses its ability to absorb rainfall and the water runoff from the storms causes increased water in the low-lying areas.

## Flood Insurance

Washoe County participates in the National Flood Insurance Program (NFIP) that makes available federally backed flood insurance for all structures, whether or not they are located within the floodplain. NFIP has claims that are filed by properties located outside the 100-year floodplain, also known as the Special Flood Hazard Area (SFHA). Following the purchase of flood insurance, NFIP imposes a 30-day waiting period, so residents should purchase insurance before the onset of the rainy season to insure coverage during the flooding season.

Participation in the NFIP (and thus the availability of flood insurance to County residents) requires the County to manage its floodplain in ways that meet or exceed standards set by FEMA. NFIP insures building with two types of coverage: structural and contents. Structural coverage includes walls, floors, insulation, furnace and other items permanently attached to the structure. Contents coverage may be purchased separately to cover the contents of an insurable building. Flood insurance also pays a portion of the costs of actions taken to prevent flood damage.

Since July 1, 1997, all NFIP policies include Increased Cost of Compliance coverage that assists with bringing structures into compliance with current building standards, such as elevating structures 1 foot or more above the height of the 100 -year flood. The limit of this coverage is $\$ 30,000$.

Federal financial assistance requires the purchase of flood insurance for buildings located within the SFHA - a requirement that affects nearly all mortgages financed through commercial lending institutions. This mandatory requirement stipulates that structural coverage be purchased equal to the amount of the loan, or other financial assistance, or for the maximum amount available, which is currently $\$ 250,000$ for a single family residence. While the mandatory flood insurance purchase requirement has been in effect for many years, not all lending institutions have required flood insurance in the past. Today, however, most institutions are now requiring the flood insurance purchase, and some are reviewing all mortgage loans to determine whether flood insurance is required and should have been required in the past. Upon refinancing a loan, nearly all lending institutions will enforce the flood insurance requirement. It is the lender's responsibility to check the Flood Insurance Rate Map (FIRM) to determine whether a structure is within the SFHA.

The mandatory flood insurance purchase requirement does not apply to loans or financial assistance for items that are not eligible for flood insurance coverage, such as vehicles, business expenses, landscaping and vacant lots. The requirement also does not apply to loans for structures not located in a SFHA, even though a portion of the lot may be within a SFHA. Persons located within SFHA's who received disaster assistance after Sept. 23, 1994 for flood losses to real or personal property must purchase and maintain flood insurance coverage, otherwise future disaster assistance will be denied.

## Floodplain Operations

Maintaining the flow capacity in streams that cross County properties requires cooperation and assistance to prevent flooding and bank erosion. Following are some suggestions and information for understanding the ways that floodplains function and how the County regulates the floodplain in order to protect property and lives, while affording County citizens the ability to obtain floodplain insurance.

Do not dump or throw anything into ditches or streams: A plugged channel cannot carry water, and when it rains, the excess water must go somewhere. Trash and vegetation dumped into a stream degrades water quality of both the stream itself and its receiving waters, and every piece of trash contributes to flooding. The County has adopted and enforces regulations that prohibit the illegal dumping of material, including material dumped into ditches, streams of other drainage ways. Please report any observations of the dumping of debris or other objects into streams, drainage ways, or rivers to Washoe County Community Services Department at (775) 328-2040.

Remove debris, trash, loose branches and vegetation: Keep banks clear of debris to help maintain an unobstructed flow of water in stream channels. Do not remove vegetation that is actively growing on a stream bank. Streamside vegetation is tightly regulated by local, state and federal regulations. Before undertaking any removal of streamside vegetation, contact the Washoe County Community Services Department at (775) 328-2040 and the Corp of Engineers at (775) 784-5307. Please report any observations of the clearing of vegetation or trees on stream banks to the Washoe County Community Services Department.

Obtain a grading permit and/or building permit, if required: To minimize damage to structures during flood events, the County requires all new construction in the floodplain to be anchored against movement by floodwaters, resistant to flood forces, constructed with flood-resistant materials and flood-proofed or elevated so that the first floor of living space, as well as all mechanical services, is at least 1 foot above the elevation of the 100 -year flood. These standards apply to new structures and to substantial improvements of existing structures. The County defines a Substantial Improvement as any reconstruction, rehabilitation, or addition to an existing structure, the cost of which exceeds 50 percent of the structure's appraised or market value. Additionally, most other types of development within the floodplain also require a grading permit which includes cut and fill, installation of riprap and other bank stabilization techniques. County staff is available to undertake site visits, if required, to review flood drainage and grading issues. Contact the Washoe County Community Services Department at (775) 3282040 for information and prior to undertaking any activity within the floodplain or if you see nonpermitted building or filling in the floodplain.

Recognize the natural and beneficial functions of floodplains to help reduce flooding: Floodplains are a natural component of the Washoe County environment. To understand and protect the natural functions of floodplains helps reduce flood damage and protect resources. When flooding spreads out across the floodplain, its energy is dissipated, which results in lower flood flows downstream, reduced erosion of the stream bank and channel, deposition of sediments higher in the watershed and improved groundwater recharge. Floodplains are scenic, valued wildlife habitat, and suitable for farming. Poorly planned development in floodplains can lead to stream bank erosion, loss of valuable property, increased risk of flooding to downstream properties and degradation of water quality.

Reduce risk of damage to homes: Practical and cost-effective methods for reducing or eliminating the risk of flooding are available to property owners whose homes have experienced damage from flooding in the past, or may experience damage in the future. Such techniques include elevation of the home, relocating the home to higher ground and protecting utilities. For further information, contact the Washoe County Community Services Department at (775) 328-2040. During times of flooding, homes that have
not been retrofitted can be protected during emergencies by the installation of sandbags. For further information about sandbags and the locations of sites where sandbags are available during flooding, contact Washoe County Community Services Department or visit our Web site at: www.washoecounty.us/em/ In case of an emergency, call 911.

County floodplain information services: The County can determine the relationship of a particular property to the floodplain, including: 1) whether the property is located within the Special Flood Hazard Area; 2) Flood Insurance Rate Map (FIRM) Zone for the property; 3) Base Flood Elevation for a property, if available; and 4) whether the property is located within the Floodway. The County also maintains elevation certificates for review, if available. Contact the Washoe County Community Services Department at (775) 328-2040 for information. All of this information can also be accesses through "Washoe County FEMA DFIRM Map", a database program for public access located on the Washoe County web site at: http://wcgisweb.washoecounty.us/fema/.

The County has flood warning information available that can be accessed through our Web site at: www.washoecounty.us/em/ The Web site includes information about sandbag locations and ways to contact and listen to the National Weather Service. It also has an informational brochure that explains how people can prepare for an emergency.

## Consideration during flooding events

Prepare an evacuation plan: Before the floodwaters hit, develop an evacuation plan among all members of a household that includes a meeting place outside of the house, as well as an escape route out of the floodplain and away from floodwaters.

Do not walk through flowing water: Drowning is the number one cause of flood deaths, mostly during flash floods. Currents can be deceptive; six inches of moving water can knock you off your feet. If you walk in standing water, use a pole or stick to ensure that the ground is still there.

Do not drive through a flooded area: More people drown in their cars than anywhere else. Don't drive around road barriers; the road or bridge may be washed out.

Stay away from power lines and electrical wires: The number two flood killer after drowning is electrocution. Electrical current can travel through water. Report downed power lines to the Sierra pacific Power Company or your utility provider.

Shut off gas and electricity and move valuable contents upstairs: Be prepared in advance with a detailed checklist because warning of an impending flood may provide little time for preparation prior to evacuation. Use a flashlight to inspect for damage. Don't smoke or use candles, lanterns of open flames unless you know that the gas has been turned off and the area had been ventilated

Look out for animals, especially snakes: Small animals that have been flooded out of their homes may seek shelter in yours. Use a pole or stick to poke and turn things over and scare away small animals.

Look before you step: After a flood, the ground and floors are covered with debris including broken bottles and nails. Floors and stairs that have been covered with mud can be very slippery.

For more information, see attach brochure.

## Contact Information

If you would like to learn more about flood information, insurance and/or safety, please contact or visit the website links of the different organizations:

1) Washoe County Emergency Management

Phone: (775) 328-2040
Web: http://www.washoecounty.us/em/
2) Washoe County Internet Flood Management Information

Phone: (775) 328-2040
Web: https://www.washoecounty.us/csd/engineering capitalprojects/floodplain management.php
3) FloodSmart.gov NFIP

Phone: (888) 379-9531
Web: http://floodsmart.gov/floodsmart/
4) Truckee Meadows Flood Awareness

Web: http://www.floodawareness.com/
5) Truckee River Flood Project

Web: http://www.truckeeflood.us/
6) Floodplain Management Association

Web: http://www.floodplain.org/
7) Association of State Floodplain Managers

Web: http://www.floods.org/
8) U.S. Army Corps of Engineers

Web: http://www.usace.army.mil/
9) Nevada Floodplain Management Program

Phone: (775) 687-4380 ext. 232
Web: http://water.nv.gov/programs/flood/
10) State of Nevada Dams and Dam Safety

Phone: (775) 684-2800
Web: http://water.nv.gov/programs/dams/index.cfm

| וmplaints/Ques | s-2015 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Name | Address | City | Phone \# | Description | Status |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Adam Searcy | Mogul Area Drains |  |  | conveyance channels are overgrown with vegetation causing chronic backups into street. Concern that this is Waters of US so have not been able to clean. Adam wants assistance in working through any permitting requirements needed. |  |
| Yvette Purdue | 3781 Mythical Ct | Sparks, NV | 378-9460 | Runoff from "county" subdivisions is draining to her property and causing damage. | 5/9/16: phone conversation - Review of Countryside subdivision Unit 1A plans show a stormdrain discharge at her northeast corner of property and is routed by a ditch to a drop niet. City of Sparks is adding a beehive grate that was supposed to be installed to replace a temporary solid cover. As to the surface drainage, her property is to receive the drainage from properties east of her. Sediment loading is to be expected given the high desert environment we live in, nevertheless, she would need to work with the property owners to request they install BMP's to prevent the mobilization onto her property. Complete |
| Doug Hodges for owner Michael P. Potter Trust | 5368 Frans Ct. | Sun Valley | $n / 2$ | culvert plugged with tumbleweeds, fire hazard | 4/25/16: reviewed grading plan, aerials, plat. 10' DE at rear of property with ditch and berm routing runoff north. Replied to email stating that drainage facility is private. Complete |
| Richard Tracy | 215 Drake Way |  | 230-3438 | drainage from adjoining property ( 225 Drake Way), mud/debris flow onto his property | 4/25/16: LM on voicemail. <br> May 2016: multiple phone calls and emails provlding me pictures of sediment transport onto our roadway. Need to discuss with Dwayne as to whether to pursue this as a Article 50 Nuisance |
| A.F. Men-Muir |  |  |  | Rough Rock Road Parcels, Drainage from offsite property. | 4/19/16: Men-Muir came to counter and \| discoussed the drainage patterns employed for these lots. He feels engineering was incompetent. Gave him copies of grading plans and hydrotogy map exhibit. I directed him to Summit Engineering if he has further questions of the design. Complete |
| Bryan Haas | 3450 Davis Ln | Reno | 907.315 .3669 | Culvert plugged at driveway | 4/19/16: Sent email to Adam Searcy to review and work order. Felisa will add a work order. Complete |
| Greg Ray | 363 W. 2nd Ave | Reno | 750-2793 | drainage coming from Loster Way. Old Sun Valley with little if any drainage conveyance. Flow from west to east down Loster Way. Mr Ray wanted to know if any improvements by County are proposed in area. Answer, No. | 4/20/16: Phone conversation with him this date and conveyed that no improvements are proposed. Complete |
| Hillary Bonner | 848 Tanager St | Incline, NV 89451 | $832.6604 \times 204$ | 820 Oriole Way. The draining areas were filled in with soil that has created a significant ponding at the entry to the Association. During the winter this has been a slip hazard for ingress/egress at the Association, on foot or in a vehicie, and for others driving by as the ponding extends well into the roadway. Given the area was covered in water for the majority of the winter the asphalt is now eroded and is in need of repairs. | 4/14/16: sent email to Rich/Adam requesting background info on work County reportedly did. 4/18/16: Per Rich Thomsen did some maintenance to get ditch to drain. Ditch ended up too deep so ditch was piped w/ DI's. He has been getting complaints from Association members about vehicle parking in area. Rich built french drain to eliminate ponding so in his opinion there is no probtem. Paving was already deteriorated. He will add this area for pavement repair. <br> 4/20/16: Talked w/ Ms. Bonner to discuss what Rich had conveyed regarding reasoning for piping the ditch, installation of french drain, and proposed paving this summer of driveway. she feels that recent pictures show ponding indicate problem was not resolved. She will send me pictures. 4/22/16: Additional comments from Rich, he built french drain on March 3, 2016 solving problem, and he will fix potholes. I conveyed Info to Ms. Bonner. Complete |
| James lacovelli | 7015 Freedom Dr | Sparks, NV | 750.9298 | storm drain manhole lid is blowing off during rain event and pool develops behind CMU. Flooding occuring on his property. Has done it 3 times since July 2015, recently as of April 2016 <br> 6/1/16: called Brian Mathews and discussed issue. He would like an email outlining issue | research of final map suggests this pipe is Washoe County's. Rec'd information from Lonnie at CFA for design of Summit Church Parking. AsBuilts for Spring Creek 1A shows $18^{" \prime}$ highway cutvert flowing tied into MH with $12^{\prime \prime}$ outfall pipe. Per Lonnie, west side highway drainage system designed to carry full flow and assumes no flow crossing highway thru culverts. Oportunity to possibly restrict iniet using restrictor plates. Sent email to Adam and will discuss further <br> 4/18/16: Scott Gilgovan reported his findings and sent pictures. Pipe is clean. I explained r/w issues. |



## Community Rating System

## Activity 502

Repetitive Losses

WASHOE COUNTY
COMMUNITY SERVICES DEPARTMENT
Engineering and Capital Projects Division

1001 East $9^{\text {th }}$ Street PO Box 11130 Reno, Nevada 89520 Telephone: (775) 328-2040 Fax: (775) 328-3699

November 20, 2015

Dear Washoe County Resident:
You have received this letter because your property is in an area that has been flooded several times. When our drainage system of ditches and culverts was built over 50 years ago, it could handle all but the largest storms. Since then, urban development in Washoe County has increased the amount of storm water runoff. As a result, your area floods on an average of every 10 years.

Washoe County is concerned about repetitive flooding and has an active program to help you protect yourself and your property from future flooding. Washoe County Truckee River Flood Management Project is seeking funding support to improve floodwater carrying capacity in your area. For more information call the Truckee River Flood Management Project at (775) 850-7460.

Meanwhile, here are some things you can do:

1. Check with the Washoe County Truckee River Flood Management at (775) 850-7460 on the extent of past flooding in your area. The staff can tell you about the causes of repetitive flooding, what the County is doing about it, and what would be an appropriate flood protection level. Staff can discuss flood protection alternatives.
2. Prepare for flooding by doing the following:

- Know the flood safety guidance on the last page of this letter.
- Know how to shut off the electricity and gas to your house when a flood comes.
- Make a list of emergency numbers and identify a safe place to go to.
- Make a household inventory, especially of basement contents.
- Put insurance policies, valuable papers, medicine, etc. in a safe place.
- Collect and put cleaning supplies, camera, waterproof boot, etc. in a handy place.
- Develop a disaster response plan - See the Red Cross' website: www.redcross.org/nv/reno for a copy of the brochure "Making a Disaster Plan"
- Get a copy of Repairing Your Flooded Home. We have copies at the Community Services Department or it can be found on the Red Cross' website, too.

3. Consider some permanent flood protection measures.

- Mark your fuse or breaker box to show the circuits to the floodable areas.

Turning off the power to the basement can reduce property damage and save lives.

- Consider elevating your house above flood levels.
- Check your building for water entry points. These can be basement windows, the basement stairwell, doors, and dryer vents. These can be protected with low walls or temporary shields.
- Install a floor drain plug, standpipe, overhead sewer, or sewer backup valve to prevent sewer backup during flooding.
- Note that some flood protection measures may need a building permit and others may not be safe for your type of building, so be sure to talk to the Building Department.

4. Get a flood insurance policy.
a. Homeowner's insurance policies do not cover damage from floods. However, because Washoe County participates in the National flood Insurance Program, you can purchase a separate flood insurance policy. This insurance is backed by the Federal government and is available to everyone, even properties that have been flooded. Because Washoe County participates in the Community Rating System, you will receive a reduction in the insurance premium.
b. Some people have purchased flood insurance because it was required by the bank when they got a mortgage or home improvement loan. Usually these policies just cover the building's structure and not the contents. During the kind of flooding that happens in your area, there is usually more damage to the furniture and contents than there is to the structure. Be sure you have contents coverage.
c. Don't wait for the next flood to buy insurance protection. In most cases, there is a 30-day waiting period before National Flood Insurance Program coverage takes effect.
d. Contact your insurance agent for more information on rates and coverage.

If you have any questions, please call.

Sincerely,
Kimble O. Corbridge, P.E., CFM
Floodplain Administrator


Leo R. Vesely, P.E., CFM
Licensed Engineer

# Community Rating System 

Activity 510 - Floodplain Management Planning

## Corbridge, Kimble

1 1 .abject: Attachments:

Corbridge, Kimble
FW: FEMA CRS Recertification
Washoe County Promulgations.pdf

From: Kenneston, Aaron
Sent: Tuesday, August 30, 2016 5:00 PM
To: Corbridge, Kimble
Subject: RE: FEMA CRS Recertification

Kimble,

I do not have an annual progress report because we completely re-wrote the plan and adopted it this year. We did provide copies of the new plan to all involved and had the Board adopt this year as well (2-9-16).

I will have to see about proof of telling people about flooding. We do messaging tho... http://mms.tveyes.com/Transcript.asp?StationID=3755\&DateTime=6\%2F2\%2F2016+5\%3A09\%3A30+PM\&Li neNumber=\&MediaStationID=3755\&playclip=True\&RefPage=
aron R. Kenneston, CEM
Washoe County Emergency Management \& Homeland Security Program Office: (775) 337-5898 Cell: (775) 742-6944

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## Status of Participating Jurisdictions as of January 25, 2016

| Jurisdictions - Approvable Pending Adoption |  |  |
| :---: | :---: | :---: |
| $3$ |  | Date indoplion ix y wex |
| 1 | Washoe County | $2-9-16$ |
| 2 | Reno, City of | $4-13-16$ |
| 3 | Sparks, City of | $2-22-16$ |
| 4 | Truckee River Flood Management Authority | 4-8-16 |
| 5 | Reno-Sparks Indian Colony | 2-24-16 |
| 6 | Pyramid Lake Paiute Tribe | - Pending $\rightarrow$ ( $5-16$ ) |

## RESOLUTION

WHEREAS, Washoe County formed a Hazard Mitigation Stecring Committee with regional partners (the Cities of Sparks and Reno, the Reno-Sparks Indian Colony and the Pyramid Lake Paiute Tribe, and the Truckee River Flood Management Project) and the efforts of this committee have resulted in the 2015 Regional Multi-Hazard Mitigation Plan; and

WHEREAS, Washoe County and regional partners conducted a Hazand Vulnerability Analysis (HVA) and integrated public input as part of this process, to consider the natural, technological, and human caused risks to which the County is vulnerable; and

WHEREAS, Recent events have shown that the County must remain ever vigilant to eliminate or reduce the risk to human life, property and the environment posed by hazards; and

WHEREAS, The Regional Multi-Hazard Mitigation Plan's purpose is to integrate hazard mitigation strategies into the activities and programs of the County; and

WHEREAS, The Regional Multi-Hazard Mitigation Plan is a living document; now, therefore, be it

RESOLVED, That the Washoe County Board of Commissioners, on behalf of the residents of Washoe County, adopt the Washoe County Regional Multi-Hazard Mitigation Plan, and further direct that the County Emergency Manager continue to inform the public and community of the hazard mitigation strategies recommended by the plan.

ADOPTED this $9^{\text {th }}$ day of February, 2016.


## RESOLUTION NO. 8185

WHEREAS, the City of Reno participated in a Washoe County Hazard Mitigation Steering Committee with regional partners (Washoe County, City of Sparks, Reno-Sparks Indjan Colony, Pyramid Lake Paiute Tribe, and Truckee River Flood Management Authority) and the efforts of this Committee have resulted in the 2015 Washoe County Multi-Hazard Mitigation Plan; and,

WHEREAS, the regional partners conducted a Hazard Vulnerability Analysis (HVA) and integrated public input as part of this process, to consider the natural, technological, and human caused risks to which the County is vulnerable; and,

WHEREAS, recent events have shown that the County and regional pariners must remain vigilant to eliminate or reduce the risk to human life, property, and the environment posed by hazards; and,

WHEREAS, the 2015 Washoe County Regional Multi-Hazard Mitigation Plan's purpose is to integrate hazard mitigation strategies into the activities and programs of the County and its regional partners; and,

WHEREAS, the 2015 Washoe County Regional Multi-Hazard Mitigation Plan is a living document; and,

NOW THEREFORE BE IT RESOLVED, that the Reno City Council, on behalf of the residents of the City of Reno, adopt the 2015 Washoe County Regional Multi-Hazard Mitigation Plan, and further direct that the City of Reno Emergency Manager continue to inform the public and community of the hazard mitigation strategies recommended in the Plan.

Upon motion by Council Member Duert, seconded by Council Member Delgado, the foregoing resolution was adopted this $13^{\text {th }}$ day of April, 2016 , by the following vote of the Council:

AYES: Duerr, Delgado, Bobzien, Brekhus, Schieve
NAYS:
ABSTAIN $\qquad$ ABSENT: McKenzie, Jardon

APPROVED this $\quad 13^{\text {th }}$ day of April 2016.


## INTRODUCED BY COUNCIL

## A RESOLUTION ADOPTING THE WASHOE COUNTY REGIONAL MULTIhazard mitigation rlan

Wiflereas, City of Sparks formed a Hazard Mitigation Stcering Committee with regional partners (the City of Sparks and Reno, the Reno-Sparks Indian Colony and the Pyramid I.ake Paiute ITribe, and Washoe County) and the efforts of this committee have resulted in the 2015 Regional Multi-Hazard Mitigation Plan; and

WHEREAS, City of Sparks and regional partners conducted a Hazand Vulncrability Analysis (HVA) and integrated public input as part of this process, to consider the natural, technological, and human caused risks to which the City is vulnerable: and

WHIEREAS. Recent events have shown that the City must remain ever vigilant to eliminate or reduce the risk to human life, property and the environment posed by hezzards; and

WHEREAS, The Regional Multi-Hazard Mitigation Plan`s purpose is to integrate hazard initigation strategies into the activitics and programs of the City; and

WHEREAS, The Regional Multi-Hazard Mitigation Plan is a living docuncent; now, therefore, be it

NOW, THEREFORE, BE IT RESOLVED by the Sparks Cily Council. on behalf of the residents of City of Sparks, adoption of the Washoe County Regional Multi-Hazard Mitigation Plan, and further direction that the Sparks Emergency Manager conlinue to infonm the public and community of the hazard mitigation strategies recommended by the plan.

PASSED AND ADOPTED this 22nd day of lebruary, 2016 by the following vote of the City Council:

| AYES: | Ratti, Lawson, Smith, Bybee, Schmitt |
| :--- | :--- |
| NAYS: | None. |
| ABSENT: None |  |
| ABSTAN: None |  |

Approved this $22^{\text {nd }}$ day of liebruary, 2016 by:




## RESOLUTION OF THE RENO-SPARKS TRIBAL COUNCIL

WHEREAS, the Tribal Council of the Reno-Sparks Indian Colony is organized pursuant to the provisions of the Indian Reorganization Act of June 18, 1934 (48 Stat. 984), as amended, to provide for certain rights of home rule and to be responsible for the general welfare of its membership; and

WHEREAS, the Reno-Sparks Indian Colony has historically experienced severe damage from natural and human-caused hazards such as flooding, wildfire, drought, thunderstorms/high winds, and hazardous materials incidents on many occasions in the past century, resulting in loss of property and life, economic hardship, and threats to public health and safety;

WHEREAS a Reno-Sparks Indian Colony's Hazard Mitigation Plan (the Plan) has been developed after research and work by the Reno-Sparks Indian Colony's staff in association and cooperation with Washoe County, along with the Cities of Reno and Sparks, for the reduction of hazard risk to the community;

WHEREAS the Plan specifically addresses hazard mitigation strategies and plan maintenance procedures for the Reno-Sparks Indian Colony;

WHEREAS the Plan recommends several hazard mitigation actions/projects that will provide mitigation for specific natural and human caused hazards that impact the RenoSparks Indian Colony with the effect of protecting people and property from loss associated with those hazards; and,

WHEREAS, the Plan will be used to facilitate inter-jurisdiction coordination and collaboration related to all hazard mitigation planning and implementation; and

NOW, THEREFORE, BE IT RESOLVED, the Reno-Sparks Indian Colony Tribal Council directs that the Hazard Mitigation Plan is hereby adopted as the official plan of the Reno-Sparks Indian Colony, and the respective officials of the Colony are hereby directed to pursue implementation of the recommended actions assigned to them in the Plan; and

BE IT FURTHER RESOLVED, the Reno-Sparks indian Colony further directs that future revisions and Plain maintenance required by the Disaster Mitigation Act of 2000 and FEMA are hereby adopted as a part of this Resolution for a period of five (5) years from the date of this Resolution.

## CERTIFICATION

I, the undersigned Secretary of the Reno-Sparks Tribal Council, hereby certify that the Tribal Council, composed of nine (9) members, of whom five (5), constituting a quorum, were present at a duly called meeting which was convened and held on the $24^{4 n}$ day of February, 2016, and that the foregoing resolution was duly adopted by a vote of five (5) for, zero (0) against, and ons (1) abstention, pursuant to authority contained in the Constitution and Bylaws of the RenoSparks Indian Colony.


## PROCLAMATION

WHEREAS, Washoe County formed a Hazard Mitigation Steering Committee. The Truckee River Flood Management Authority participated in that committee with other regional partners including the Cities of Sparks and Reno, the Reno-Sparks Indian Colony and the Pyramid Lake Paiute Tribe. The efforts of this committee have resulted in the 2015 Reglonal Multi-Hazard Mitigation Plan; and

WHEREAS, Washoe County, the Truckee River Flood Management Authority, and the other regional partners conducted a Hazard Vulnerability Analysis and integrated public input as part of this process, to consider the natural, technological, and human caused risks to which the County is vulnerable; and

WHEREAS, Recent events have shown that the County and its regional partners must remain ever vigilant to eliminate or reduce the risk to human life, property, and the environment posed by hazards; and

WHEREAS, The Regional Multi-Hazard Mitigation Plan's purpose is to integrate hazard mitigation strategies into the activities and programs of the County; and

WHEREAS, The Regional Multi-Hazard Mitigation Plan is a living document; now, therefore, be it

RESOLVED, That the Truckee River Flood Management Authority on behalf of its constituent governments hereby acknowledges and accepts the Washoe County Regional Multi-Hazard Mitigation Plan, and further shall continue to inform the public and community of the hazard mitigation strategies recommended by the plan.

PROCLAIMED this $8^{\text {th }}$ day of April, 2016.

$1-0$


## From 09/01/15 so 06/30/16.Activity $=461$



## WORn REPORT DETAIL

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DR - DRAINAGE

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## 0000121N - RENO - NORTH

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## WORK REPORT DETAIL

 From 09\%OJ/I5 to 06/30/16 Activily $=462$0000121 N - RENO - NORTH

| 09/24/15 | N2306007 BIRCH ST 99 P | 5528 TRUCK, DUMP 10YD |
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| 09/24/15 | N2306007 BIRCH ST 998 | CMP12 $12^{*} \mathrm{CMP}$ |
| 09/24/15 | N2306007 BIRCH ST 998 | LF |
| 09/28/15 | N2306007 BIRCH ST. $99 P$ | 2256 ROSAS BILL |
| 09/28115 | N2306007 OIRCH ST 998 | 1071 QUIGGLE CHAD |
| 09/28/15 | N2305007 BIRCH ST . 99 | 8647 RUIZ, HORACIO |
| 09128115 | N2306007 BIRCH ST .99 | 27122014 RAM CREW CAB |
| 09/28/15 | N2306007 BIRCH ST 99 | 7875 BACK |
| 09/28/15 | N2305007 BIRCH ST 99 | 5528 TRUCK, DUMP 10YD |
| 88115 | N2306007 BIRCH ST . 99 | 5214 TRUCK, DUMP 12+YD |
| 09/28/15 | N2305007 BIRCH ST . 99 | ds |
| 09/28/15 | N2306007 BIRCH ST . 99 | AL |
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| 0912915 N2202016 SHENANDOAH DRI 2049 BURKE JAMES, JR |  |  |
| 09/29/15 N2202016 SHENANDOAH DR'' 8312 CONNOR, DONALD |  |  |
| 0912915 N2202016 SHENANDOAH DRI 2361 TRUCK, PICKUP |  |  |
| 09/2915 N2202016 SHENANDOAH DRI' 7874 BACKHOE |  |  |
| 09/29115 N2202016 SHENANDOAH DRI' 5201 TRUCK, DUMP 12+YD |  |  |
| 09/2915 N2202016 SHENANDOAH DRI' AB3/4 3/4* BASE MATERIAL |  |  |
| 09129115 N2202016 SHENANDOAH DRI CMP12-0 CMP12-0 |  |  |
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| 0913015 | 06007 BIRCH ST . 99 | 2256 ROSAS BILL |
| 09/30115 | 306007 BIRCH ST . 99 P | 1071 QUIGGLE CHAD |
| 09/30115 | 306007 BIRCH ST . $99 P$ | 8547 RUIZ, HORACIO |
| 0930/15 | N2306007 BIRCH ST 99 P | 3600 GONGAWARE MARK |
| 09130115 | N2306007 BIRCH ST . 99 P | 27122014 RAM CREW CAB |
| 09/30115 | N2306007 BIRCH ST . 99 P | 7875 BACKHOE |
| 09/30115 | N2306007 BIRCH ST . 99 P | 5528 TRUCK, DUMP 10YD |
| 09/30115 | N2306007 BIRCH ST 99 P | 5204 TRUCK, OUMP 12+YO |
| 09/3015 | N2306007 BIRCH ST, 99 P | AB3/4 314* BASE MATERIAL |
| 09/30115 | N2306007 BIRCHST . 99 P | CMP12 $12{ }^{2}$ CMP |

462 - PIPE INSTALIVREPLACE 462 - PIPE INSTALL/REPLACE 462 -PPE INSTALLREPLACE 462. PPPE INSTALLIREPLACE 462 - PIPE INSTALLUREPLACE 462 . PIPE INSTALLREPLACE 462 - PIPE INSTALUREPLACE 462-PIPE INSTALREPLACE 462-PIPE INSTALLREPLACE 462 - PIPE INSTALLREPLACE 462 -PIPE INSTALLREPLACE 462 - PIPE INSTALLREPLACE 462 . PPEE INSTALLREPLACE 462 -PPE INSTALLREPLACE 462-PIPE INSTALUREPLACE 462 -PPE INSTALLREPLACE 462. PIPE INSTALLREPLACE 462-PIPE INSTAL LREPACE 462-PIPE INSTALUREPLACE 462 -PIPE INSTALLREPLACE 462-PIPE INSTALIREPLACE 462 - PIPE INSTALLREPLACE 462 - PIPE INSTALLREPLACE 462 - PIPE INSTALUREPLAGE 462 - PIPE INTALLIREPLACE 462 - PIPE INSTALLREPLACE 462 -PIPE INSTALIREPLACE 462 -PIPE installureplace 462-PIPE INSTALUREPLACE 462 -PPE INSTALUREPLACE 462 -PIPE INSTALLREPLACE 462-PPPE INTALLUREPLACE 462 -plpe INSTALIREPLLCE 462-PIPE WSTALLIREPLACE

[^2]
## WORn REPORT DETAIL <br> 

| ACTIVITY | DATE | LOCATION | Resources |  | Type | Lab/Hr | Equip/Hr | Mat | Contr | Misc | WkQty | W/O\# | ACCT\# |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0000121 N - RENO - NORTH |  |  |  |  |  |  |  |  |  |  |  | DR - | NAGE |
| 462-FIPE INSTALL/REPLACE | 09130145 | N2306007 BIRCH ST . 98 P | CMP12-0 CMP12-0 |  | 0 |  |  | 16.0 |  |  |  |  |  |
| 462 - PIPE INSTALLREPLACE | 09/30115 | N2306007 B1RCH ST . 99 P | CPL12 CPL $12{ }^{\circ}$ |  | 0 |  |  | 2.0 |  |  |  |  |  |
| 462-PIPE INSTALLREPLACE | 09/30/15 | N2306007 BIRCH ST . 99 P | LF |  | 0 |  |  |  |  |  | 56.0 |  |  |
| 462 - PIPE INSTALLIREPLACE | 10101/15 | N2306002 ALASKA ST .60 P | 2256 ROSAS BILL |  | $R$ | 1:00 |  |  |  |  |  |  |  |
| 462 - PIPE INSTALLIREPLACE | 10,01/15 | N2306002 ALASKA ST . 60 P | 1071 QUIGGLE CHAD |  | R | 1:00 |  |  |  |  |  |  |  |
| 462 - FIPE INSTALLREPLACE | 10501/15 | N2306002 ALASKA ST . 60 | 8647 RUIZ, HORACIO |  | R | 1:00 |  |  |  |  |  |  |  |
| 462-PIPE INSTALLREPLACE | 1001/15 | N2306002 ALASKA ST . 60 P | 27122014 RAM GREW CAB |  | 0 |  | 1:00 |  |  |  |  |  |  |
| 462 - PIPE INSTALUREPLACE | 10001/45 | N2306002 ALASKA ST .60 P | 7875 BACKHOE |  | 0 |  | 1:00 |  |  |  |  |  | , |
| 462 - PIPE INSTALLREPLACE | 10,01/15 | N2306002 ALASKA ST . 60 P | 5528 TRUCK, DUMP 10YD |  | 0 |  | 1:00 |  |  |  |  |  |  |
| 462 - PIPE INSTALLREPLACE | 1001/15 | N2305002 ALASKA ST . 60 P | 5214 TRUCK, DUMP 12+YD |  | 0 |  | 1:00 |  |  |  |  |  |  |
| 462 - PIPE INSTALLREPLACE | 10101/15 | N2306002 ALASKA ST .60 P | AB3/4 3/4" BASE MATERIAL |  | 0 |  |  | 5.0 |  |  |  |  |  |
| 462-PIPE INSTALLREPLACE | 10101/15 | N2306002 ALASKA ST . 60 P | CMP12 12" CMP |  | 0 |  |  | 5.0 |  |  |  |  |  |
| 462 - PIPE INSTALUREPLACE | 10101/15 | N2306002 ALASKA ST .60 P | CPL12 CPL $12{ }^{\circ}$ |  | 0 |  |  | 1.0 |  |  |  |  |  |
| 462 - PIPE INSTALLREPLACE | 10101/15 | N2306002 ALASKA ST . 60 P | LF |  | 0 |  |  |  |  |  | 5.0 |  |  |
| 462-PIPE INSTALLREPLACE | 10,01/15 | N2306007 BIRCH ST . 99 P | 2256 ROSAS BILL |  | $R$ | 3:00 |  |  |  |  |  |  |  |
| 462 - PIPE INSTALLREPLACE | 1001/15 | N2306007 BIRCH ST . 99 P | 1071 QUIGGLE CHAD |  | R | 3:00 |  |  |  |  |  |  |  |
| 462 -PPPE INSTALLREPLACE | 1001/15 | N2306007 B\|RCH ST . 99 P | 8647 RUIZ, HORACIO |  | R | 3:00 |  |  |  |  |  |  |  |
| 462 - PIPE INSTALLREPLACE | 10101/45 | N2306007 B\|RCH ST . 99 P | 27122014 RAM CREW CAB |  | 0 |  | 3:00 |  |  |  |  |  |  |
| 462 - PIPE INSTALLREPLACE | 10\%01/15 | N2306007 BIRCH ST . 99 P | 7875 BACKHOE |  | 0 |  | 3:00 |  |  |  |  |  |  |
| 462 - PIPE INSTALLREPLACE | 10101/15 | N2306007 BIRCH ST 99 P | 5528 TRUCK, DUMP 10YD |  | 0 |  | 3:00 |  |  |  |  |  |  |
| 462 -PIPE INSTALLIREPLACE | 10,01/15 | N2306007 BIRCH ST 99 P | 5214 TRUCK, DUMP 12+YD |  | 0 |  | 3:00 |  |  |  |  |  |  |
| 462-PIPE INSTALLIREPLACE | 10,01/15 | N2306007 BIRCH ST . $99 P$ | DEBRIS DEBRIS |  | 0 |  |  | 12.0 |  |  |  |  |  |
| 462 - PIPE INSTALLREPLACE | 10501/15 | N2306007 BiRCH ST 99 P | AB3/4 3/4" BASE MATERIAL |  | 0 |  |  | 12.0 |  |  |  |  |  |
| 462-PlPE INSTALLREPLACE | $10001 / 15$ | N2306007 BIRCH ST . 99 P | CMP12 12" CMP |  | 0 |  |  | 26.0 |  |  |  |  |  |
| 462-PIPE INSTALLREPLACE | $1001 / 15$ | N2306007 BIRCH ST . 99 P | CPL12 CPL 12* |  | 0 |  |  | 1.0 |  |  |  |  |  |
| 462-PIPE INSTALLREPLACE | 10101/15 | N2306007 BIRCHST . 99 P | LF |  | 0 |  |  |  |  |  | 26.0 |  |  |
| 462 - PIPE INSTALLREPLACE | 10/07/15 | N2305002 WATERASH STREE | 2256 ROSAS BILL |  | R | 2:00 |  |  |  |  |  |  |  |
| 462-PIPE INSTALLREPLACE | 10.07115 | N2305002 WATERASH STREE | 1071 QUIGGLE CHAD |  | R | 2:00 |  |  |  |  |  |  |  |
| 462 - PIPE INSTALUREPLACE | 10107/15 | N2305002 WATERASH STREE | 8647 RUIZ, HORACIO |  | R | 2:00 |  |  |  |  |  |  |  |
| 462-PIPE INSTALLREPLACE | 10007115 | N2305002 WATERASH STREE | 27122014 RAM GREW CAB |  | 0 |  | 2:00 |  |  |  |  |  |  |
| 462 - PIPE INSTALLREPLACE | $10107 / 15$ | N2305002 WATERASH STREE | 7875 BACKHOE |  | 0 |  | 2:00 |  |  |  |  |  |  |
| 462 -PIPE INSTALUREPLACE | 10/07/15 | N2305002 WATERASH STREE | 5528 TRUCK, DUMP 10YD | 0 | 0 |  | 2:00 |  |  |  |  |  |  |
| 462-PIPE INSTALLREPLACE | 10/07/15 | N2305002 WATERASH STREE | 5527 TRUCK, DUMP 10YD |  | 0 |  | 2:00 |  |  |  |  |  |  |
| 462 - PIPE INSTALLREPLACE | 10107/45 | N2305002 WATERASH STREE |  |  | 0 |  |  |  |  |  | 1.0 |  |  |

## WORn REPORT DETAIL


ACTIVITY DATE LOCATION Resources Pay Type Lab/Hr Equip/Hr Mat Contr Misc WkQty W/O\# ACCT\#

## DO00121N - RENO - NORTH

462 -PIPE INSTALLREPLACE 1010815 N2202017 SHILOH DRIVE. 253173 GOTCHER DENNISE 462 -PIPE INSTALLREPLACE 462 -PIPE INSTALLREPLACE 462 - PIPE INSTALLREPLACE 462 - PIPE INSTALLREPLACE 462 - PIPE INSTALLREPLACE 462 - PIPE INSTALLREPLACE 462-PIPE INSTALLIREPLACE 462 - PIPE INSTALLIREPLACE 462 - PIPE INSTALIREPLACE 462 - PIPE INSTALIREPLACE 462 - PIPE INSTALLREPLACE 462-PIPE INSTALLREPLACE 462 - PIPE INSTALLREPLACE 462 - PPPE INSTALLIREPLACE 462 - PIPE INSTALLIREPLACE 462-PIPE INSTALLREPLACE 462 - PIPE INSTALLREPLACE 462-PIPE INSTALLREPLACE 462 - PIPE INSTALUREPLACE 462 - PIPE INSTALUREPLACE 462 - PIPE INSTALLREPLACE 462 - PIPE INSTALLREPLACE 462 - PIPE INSTALLIREPLACE 462 - PIPE INSTALLRREPLACE 462 - PIPE INSTALLREPLACE 462 -PIPE INSTALLREPLACE 462 -PIPE INSTALLREPLACE 462 - PIPE INSTALLIREPLACE 462 - PIPE INSTALLREPLACE 462 - PIPE INSTALUREPLACE 462 -PIPE INSTALUREPLACE 462 -PIPE INSTALL/REPLACE 462-PIPE INSTALLIREPLACE

## WOR^ REPORT DETALL

From 09/01/35 to 06/30/16 Acivity $=462$
0000121 N - RENO - NORTH
462 - PIPE INSTALL/REPLACE $10 / 21 / 15$ N2305002 WATERASH STREE 8312 CONNOR, DONALD 462-PIPE INSTALIREPLACE 1012/115 N2355002 WATERASH STREE 2361 TRUCK, PICKUP 10211115 N2305002 WATERASH STREET875 BACKHOE
 462-PIPE INSTALLLREPLACE 10/21/15 N2305022 WATERASH STREE 5204 TRUCK, DUMP 12+YD 462 - PPE INSTALLREPLACE 10121115 N2305002 WATERASH STREE DEBRIS DEBRIS
462-PIPE INSTALIREPLACE $10 / 21115$ N2305002 WATERASH STREEAB3/4 34- BASE MATERIAL 462-PIPE INSTALLREPLACE 10212115 N2305002 WATERASH STREE $15^{\circ}$ HDPE $15^{\circ}$ HDPE
10/21115 N2305002 WATERASH STREELF
10/26/15 N2305002 WATERASH STREE 2256 ROSAS BILL 1012615 N2305002 WATERASH STREE 1071 OUIGGLE CHAD 10126115 N2305002 WATERASH STREE 8647 RUIZ, HORAGIO 1012615 N2305002 WATERASH STREE 2361 TRUCK, PICKUP 1026615 N2305002 WATERASH STREE 7875 BACKHOE
1026615 N2305002 WATERASH STREE 5528 TRUCK, DUMP 10YD 10126/15 N2305002 WATERASH STREE 5527 TRUCK, DUMP 10YD 10726/15 N2305002 WATERASH STREEDEBRIS OEBRIS
10126115 N2305002 WATERASH STREE AB344 344* BASE MATERIAL 10/26/15 ${ }^{\text {N2305002 WATERASH STREE }} 15^{*}$ HDPE $15^{\circ}$ HDPE
102615 N230S02 WATERASH SMEL
 102715 N2305002 WATERASH STREE 8647 RUIZ, HORACIO 10127/15 N2305002 WATERASH STREE 2331 TRUCK, PICKUP 1027715 N2305002 WATERASH STREE 7875 BACKHOE 10г2745 N2305002 WATERASH STREE 5528 TRUCK, DUMP 10YD 10:27/15 N2305002 WATERASH STREE 5227 TRUCK, DUMP 10YD 10277145 N2305002 WATERASH STREEDEBRIS DEBRIS 10R7/45 N2305022 WATERASH STREE AB3/4 344" BASE MATERIAL 10127115 N2305002 WATERASH STREE 15" HDPE 15" HDPE 1027715 N2305002 WATERASH STREELF
113015 N2402015 KNOB HILL DRIVE 2256 ROSAS BILL 1130イ15 N2402015 KNOB HILL DRIVE 1071 QUIGGLE CHAD 1130/15 N2402015 KNOB HILL DRIVE 3173 GOTCHER DENNISE 462-PIPE NSTALLREPLACE 462 - PPE INSTALLREPLACE 462 - PPE INSTALLREPLACE 462 - PPE INSTAL/REPLACE 452 - PIPE INSTALLREPLACE 462-PIPE INSTALLREPLACE 452 -PIPE INSTALLREPLACE 462. PIPE INSTALLREPAACE 462- PIPE INSTALLREPLACE 462-PPEE INSTALLREPLACE 462-PPE INSTALIREPLLCE 462-PPEE INSTALUREPLACE 462-PIPE INSTALLREPLACE 462-PIPE INSTALLREPLACE 462-PPPE INTTALLREPLACE 462- PIPE $\operatorname{INT}$ TALLREPLACE 462- PIPE INTTALIREPLACE 462-PIPE INSTALLREPLACE 462 - PPE INSTALREPLACE 462- PPE INSTALLREPLACE 462- PIPE INTALUREPLACE 462 - PPE INSTALLREPLACE 462 - PPPE INSTALIREPLACE 462-PIPE NSTAL LREPLACE

## WOR^ REPORT DETAIL

From 09/01/15 to 06/30/16 scivity $=462$

## ACTIVITY DATE LOCATION



## ACTIVIIY DATE LOCATION

## 000121 N - RENO - NORTH

462 - PIPE INSTALLREPLACE $01 / 21 / 16$ N2401002 SPEARHEAD WAY 27122014 RAM CREW CAB 462 - PIPE INSTALUREPLACE 462 - PIPE INSTALUREPLACE 462 - PIPE INSTALLREPLACE 462 - PIPE INSTALLREPLACE 462 - PIPE INSTALLREPLACE 462 - PIPE INSTALLREPLACE 462-PIPE INSTALREPLACE 462-PIPE INSTALLREPLACE 462 - PIPE INSTALLUREPLACE 462-PIPE INSTALLREPLACE 462 - PIPE INSTALIREPLACE 462 - PIPE INSTALIREPLACE 462 - PIPE INSTALUREPLACE 462 - PIPE INSTALLREPLACE 462-PIPEINSTALLREPLACE 462 -PIPE NSTALLREPLACE 462 - PIPE INSTALUREPLACE 462 - PIPE INSTALUREPLACE 462 - PIFE INSTALUREPLACE 462-PIPEINSTALUREPLACE 462-PIPE NSTALUREPLACE 462 - PIPE INSTALLREPLACE 462-PIPE INSTALLREPLACE 462-PIPE INSTALLIREPLACE 462 - PIPE INSTALUREPLACE 462 - PIPE INSTALLREPLACE 462-PIPE INSTALIREPLACE 462-PIPE INSTALUREPLACE 462 - PIPE INSTALLREPLACE 462 - PIPE INSTALIREPLACE 462 - PIFE INSTALIREPLACE 462 - PIPE INSTALLREPLACE

[^3]

## WORк REPORT DETAIL

 From 09/fl/1/s to 06/30/16 Activity $=462$ACTIVITY DATE LOCATION Resources Pay Type Lab/Hr Equip/Hr Mat Contr Misc WkQty W/O\# ACCT\#

## $0000121 S$ - RENO - SOUTH

## 462-PIPE INSTALLIREPLACE $01 / 25 / 16$ S1201001 RIMROCK DRIVE 1DEBRIS DEBRIS

$01 / 25116$ Si201001 RIM ROCK DRIVE 1 AB3 3/4' AB $3 / 4^{\circ}$ BASE
01/25/16 S1201001 RIM ROCK DRIVE ICMP12 $12^{*}$ CMP 0125516 S1201001 RIM ROCK DRIVE 1 CPL 12 CPL $12^{\circ}$ 0125116 S1201001 RIM ROCK DRIVE 17873 BACKHOE
01125/16 S1201001 RIMROCK DRIVE 15526 TRUCK, DUMP 10YD
$00: \varepsilon$
$00: 5$
$00: 5$
5:00
$5: 00$
$5: 00$
$5: 00$
$5: 00$
85.0 LF


## WORn REPORT DETAIL

.
Pay Type Lab/Hr Equip/Er Mat Contr Misc WkQty W/O\# ACCT\#
DR - DRAINAGE
100.0
120.0
응
분

## WORn REPORT DETAIL

 From 09/0/1/5 so 06/30/16 Activity $=462$Pay Type Lab/Hr Equip/Hr Mat Contr Misc WkQty W/O\# ACCT\# DR - DRAINAGE



## WORK REPORT DETAIL

 From 09/0I/15 to 06/30/16 Acivily $=462$
## Date location

DR - DRAINAGE


[^4]Spanish Spring Flood Detention Facility - Operation and Miaintenance Plan

## Inspection Activities

Suggested Frequency

- Inspect the facility ("facility" includes all elements of channels, detention and sediment basins) after all significant storm events for bank stability and vegetation growth.
- Inspect facilities outlet structures and culverts for evidence of clogging or outflow release velocities are greater than design flow.

Semi-annual and after all
significant storms

- Inspect the facility for the following elements: differential settlement, cracking; erosion of banks or bottom, leakage, or tree/shrub growth on the embankments; the condition of all riprap, clogging of outlets, culverts and channels; standing water, slope stability, presence of burrows; sediment accumulation in the basins and channels, fore bays (northeast channel entrances to both sediment and detention ponds), and outlet structures; trash and debiris, and the vigor and density of grass turf on the basin side slopes and floor.
- Inspect for the following issues: subsidence, damage

Annual to the emergency spillways; inadequacy of the inlet/outlet channel erosion control measures; changes in the condition of the low flow channels, accumulated sediment volume, and semi-annual inspection items.

- During inspections, changes to the sediment and detention basins or the contributing watershed should be noted, as these may affect basin performance.

Maintenance Activities Suggested Frequency

- Remove accumulated trash and debris from the Facility, around any pipes, side slopes, embankments, emergency spill ways, fencing, channels, culverts, and outlet trash racks. The frequency of this activity may be altered to meet specific site conditions.

Semi-annual, or more frequent, as needed

- Trim or mow vegetation at the beginning and end of the wet season to prevent establishment of woody vegetation and for aesthetic and vector reasons.
- Seed to restore dead or damaged ground cover.
- Repair erosion to banks and bottom as required.
- Remove nuisance plant species.
- Remove sediment from the fore bays to reduce maintenanice frequency of basin cleaning.
- Monitor sediment accumulation and remove accumulated sediment and grade about every 10 years or when the accumulated sediment volume exceed $10-20 \%$ of the detention and sediment basin volume, or when accumulation reaches 6 inches or if suspension of sediment is observed. Clean in early spring so vegetation damaged during cleaning has time to re-establish.

Annual maintenance (as needed)

3-5 year

Every $10-25^{\circ}$
years, or as needed

## Community Rating System

Activity 540 - Drainage System Maintenance

## WORA REPORT DETALL

 From 09101/15 to 06/30/16 Activity $=453$O000121N - RENO - NORTH
 0901145 N2302003 PALACE COURT. 0\$8735 WATT. DILLON 09101115 N2302003 PALACE COURT. $0: 5209$ TRUCK, DUMP 12+YD 09101115 N2302003 PALACE COURT 0:520W WATERTRKWASHOE 0901/15 N2302003 PALACE COURT ,0:DEBRIS DE8RIS $09101 / 15$ N2302003 PALACE COURT .O: WATER WATER 0901/15 N2302003 PALACE COURT .0: EACH
3:00

|  |  | 3.0 |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $22: 00$ | $30: 00$ | 1511.0 | 0.0 | 0.0 | 8.0 EACH |





|  | ORT | $D E T A I L$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From 09\%01/ns 6006 | vity $=453$ |  |  |  |  |  |  |  |  |  |  |
| ACTIVITY | DATE | LOCATION Resources | Pay Type | Lab/Hr | Equip/Hr | Mat | Contr | Mise | WkQty | W/O\# | ACCT\# |
| 0000121S - RENO |  |  |  |  |  |  |  |  |  | DR - | INAGE |
| 453-dIMH Clean | 09130115 | MF7104014 DOUGLAS FIR DR WATER WATER | 0 |  |  | 50.0 |  |  |  |  |  |
| 453 - DIM ${ }^{\text {C CLEAN }}$ | 09/30115 | MF7104014 DOUGLAS FIR DREACH | 0 |  |  |  |  |  | 4.0 |  |  |
| 453 - D/MMHCLEAN | 10101/15 | MF7104007 BLUE SPRUCE R(2087 HOUK RALPH | R | 0:30 |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 1001/15 | MF7104007 BLUE SPRUCE RC 8293 BURKE, CODY | R | 0:30 |  |  |  |  |  |  |  |
| 453-DIMHHCLEAN | 10011/15 | MF7104007 BLUE SPRUCE R(5560 TRUCK, VAC | 0 |  | 0:30 |  |  |  |  |  |  |
| 453 - DIMH CLEAN | 10011/15 | MF7104007 BLUE SPRUCE RCDEERIS DEBRIS | 0 |  |  | 0.5 |  |  |  |  |  |
| 453-DLMH CLEAN | 1001/19 | MF7104007 BLUE SPRUCE RCWATER WATER | 0 |  |  | 50,0 |  |  |  |  |  |
| 453-DIMH CLEAN | 1001115 | MF7104007 BLUE SPRUCE RCEACH | 0 |  |  |  |  |  | 2.0 |  |  |
| 453-DIMHCLEAN | 10001/15 | MF7105001 SNOW FLOWER 22087 HOUK RALPH | R | 0:30 |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 1001/14 | MF7105001 SNOW FLOWER [8293 BURKE, CODY | R | 0:30 |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 1001/15 | MF7105001 SNOW FLOWER [5560 TRUCK, VAC | 0 |  | 0:30 |  |  |  |  |  |  |
| 453-DIMHH CLEAN | 1001/15 | MF7105001 SNOW FLOWER [DEBRIS DEBRIS | 0 |  |  | 0.5 |  |  |  |  |  |
| 453-DIMH CLEAN | 1001115 | MF7105001 SNOW FLOWER [WATER WATER | 0 |  |  | 50.0 |  |  |  |  |  |
| 453-DIMH CLEAN | 1001115 | MF7105001 SNOW FLOWER [EACH | 0 |  |  |  |  |  | 2.0 |  |  |
| 453-DUMHCLEAN | 1001/15 | MF7105005 EVERGREEN HILL 2087 HOUK RALPH | R | 2:00 |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 1001/15 | MF7105005 EVERGREEN HILL 8293 BURKE, CODY | R | 2:00 |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 10101/15 | MF7105005 EVERGREEN HILL 5560 TRUCK, VAC | 0 |  | 2:00 |  |  |  |  |  |  |
| 453-DIMH CLEAN | 10101/15 | MF7105005 EVERGREEN HILL DEERIS DEGRIS | 0 |  |  | 1.5 |  |  |  |  |  |
| 453 - DIM CLEAN | 1001/15 | MF7105005 EVERGREEN HILL WATER WATER | 0 |  |  | 200.0 |  |  |  |  |  |
| 453-DIMH CLEAN | 1001/1/5 | MF7105005 EVERGREEN HILL EACH | 0 |  |  |  |  |  | 10.0 |  |  |
| 453-DIMHCLEAN | 1001/175 | MF7105006 MOUNTAN BLUEL2087 HOUK RALPH | R | 1:00 |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 10/11/15 | MF7105006 MOUNTAIN BLUEL 8293 BURKE, CODY | R | 1:00 |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 1001/15 | MF7 105006 MOUNTAIN BLUEI 5560 TRUCK, VAC | 0 |  | 1:00 |  |  |  |  |  |  |
| 453-DIMHHCLEAN | 1001/15 | MF7105006 MOUNTAIN BLUEI DEBRIS DEBRIS | 0 |  |  | 1.0 |  |  |  |  |  |
| 453-DIMH CLEAN | 1001/15 | MF7 105006 MOUNTAIN BLUEI WATER WATER | 0 |  |  | 100.0 |  |  |  |  |  |
| 453-Dimh Clean | 1001115 | MF7105006 MOUNTAIN BLUEIEACH | 0 |  |  |  |  |  | 3.0 |  |  |
| 453-DIMH CLEAN | 1001115 | MF 105007 AUSTRIAN PINE F 2087 HOUK RALPH | R | 1:30 |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 1001/15 | MF7105007 AUSTRIAN PINE 88293 BURKE, CODY | R | 1:30 |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 1001/15 | MF7 105007 AUSTRIAN PINE F5560 TRUCK, VAC | 0 |  | 1:30 |  |  |  |  |  |  |
| 453-DIMH CLEAN | 10001/15 | MF7105007 AUSTRIAN PINE F DEBRIS DEBRIS | 0 |  |  | 1.0 |  |  |  |  |  |
| 453 -DVMH CLEAN | 1001/15 | MF7 105007 AUSTRIAN PINE FWATER WATER | 0 |  |  | 100.0 |  |  |  |  |  |
| 453-DIMH CLEAN | 1001/15 | M-7105007 AUSTRIAN PINE FEACH | 0 |  |  |  |  |  | 4.0 |  |  |
| 453-DIMH CLEAN | 1001/15 | MF7105008 AUSTRIAN PINE (2097 HOUK RALPH | R | 0:30 |  |  |  |  |  |  |  |
| 453. DIMH CLEAN | 10001/15 | MF7105008 AUSTRIAN PINE C 8293 BURKE, CODY | R | 0:30 |  |  |  |  |  |  |  |




## WOR^ REPORT DETALL

 From 09A10I/IS la 06/30/76 Activity $=453$ACTIVITY DATE LOCATION Resources Pay Type Lab/Hr Equip/Hr Mat Contr Misc WkQty W/O\# ACCT\#
0000121 - RENO - SOUTH
02124116 S 2001015 MINNETONKA CIRC 8279 CHRISTIANSEN, ERIC
0224116 S 1201015 MINNETONKA CIRC 5561 TRUCK, VAC
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요
$\stackrel{i}{i}$


## WORn REPORT DETAIL

From $09801 / 15$ to 06/30/16 Activity $=453$

## WORא REPORT DETAIL



| ACTIVITY | DATE LOCATION Resources | Pay Type Lab/Hr | Equip/Er | Mat | Contr | Misc | WkQty | W/O\# | ACCT\# |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0000131 - Incline Roads |  |  |  |  |  |  |  | DR - | INAGE |
| 453-DIMH CLEAN | 09/10115 T1107025 REDFEATHER DR. 8900 HUF , RONY | R 0:30 |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 09110115 T1107025 REDFEATHER DR: 5561 TRUCK, VAC | 0 | 0:30 |  |  |  |  |  |  |
| 453-DIMH CLEAN | 09/10115 T1107025 REDFEATHER DR. DEBRIS DEBRIS | 0 |  | 0.5 |  |  |  |  |  |
| 453 -DIMH CLEAN | 0910/15 IT1107025 REDFEATHER DR. WATER WATER | 0 |  | 100.0 |  |  |  |  |  |
| 453-DIMH CLEAN | 0910/15 IT1107025 REDFEATHER DR.EACH | 0 |  |  |  |  | 1.0 |  |  |
| 453 -DIMH CLEAN | 09/1015 T1107026 UTTLE BURRO CO 3102 PITTS CURTIS | R 0:30 |  |  |  |  |  |  |  |
| 453 -DIMH CLEAN | 0911015 IT1107026 LITLLE EURRO CO 8900 HUF, RONY | R |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 09/10/15 T1107026 LITLE BURRO CO 5561 TRUCK, VAC | 0 | 0:30 |  |  |  |  |  |  |
| 453. DIMH CLEAN | 09/10/15 IT1107026 LTTLE BURRO CO DEBRIS DEBRIS | 0 |  | 0.5 |  |  |  |  |  |
| 453- DIMH CLEAN | 09/10/15 IT1107026 LTTLE BURRO CO WATER WATER | 0 |  | 100.0 |  |  |  |  |  |
| 453-OUMH CLEAN | 09\%10/15 IT1107026 LTTLE BURRO CO EACH | 0 |  |  |  |  | 1.0 |  |  |
| 453-DUMH CLEAN | 0910115 TT1107027 CHIPMUNK CRT , 0! 3102 PITTS CURTIS | R 0:30 |  |  |  |  |  |  |  |
| 453-DIM H CLEAN | 09/10/15 IT1107027 CHIPMUNK CRT, 0: 8900 HUF , RONY | R 0:30 |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 09/10/15 IT1107027 CHIPMUNK CRT .0! 5561 TRUCK, VAC | 0 | 0:30 |  |  |  |  |  |  |
| 453-DIMH CLEAN | 09/10/15 IT1107027 CHIPMUNK CRT .0! DEBRIS DEERIS | 0 |  | 1.0 |  |  |  |  |  |
| 453. DHM C CLEAN | 09110/15 1 I1107027 CHIPMUNK CRT .O! WATER WATER | 0 |  | 150.0 |  |  |  |  |  |
| 453-DIMH CLEAN | 09/1014 IT1107027 CHIPMUNK CRT .0! EACH | 0 |  |  |  |  | 2.0 |  |  |
| 453 - DIMMH CLEAN | 09/10/15 IT1107028 DANA DRIVE. 18 P 3102 PITTS CURTIS | $\mathrm{R} \quad 1: 00$ |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 09/10/15 IT1107028 DANA DRIVE. 18 P 8900 HUF, RONY | R 1:00 |  |  |  |  |  |  |  |
| 453 -DIMMH CLEAN | 09110/15 IT1107028 DANA DRIVE. 18 P 5561 TRUCK, VAC | 0 | 1:00 |  |  |  |  |  |  |
| 453-DUMH CLEAN | 09/10/15 IT1107028 DANA DRIVE. 18 P DEBRIS DEBRIS | 0 |  | 1.0 |  |  |  |  |  |
| 453 - DIM CLEAN | 09/10/15 T1107028 DANA DRIVE. 18 P WATER WATER | 0 |  | 500.0 |  |  |  |  |  |
| 453 -DIMH CLEAN | 09/10115 IT1107028 DANA DRIVE. 18 P EACH | 0 |  |  |  |  | 4.0 |  |  |
| 453 - DIMH CLEAN | 09/10/15 IT1109002 FAIRVIEW BLVD 2.3102 PITTS CURTIS | R 1:00 |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 09/10115 IT1109002 FAIRVIEW BLVD 2.8900 HUF, RONY | R 1:00 |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 09/10115 IT1109002 FAIRVIEW BLVD 2.5561 TRUCK, VAC | 0 | 1:00 |  |  |  |  |  |  |
| 453-DIM CH CLEAN | O9/10/15 IT1109002 FAIRVIEW BLVD 2. DEBRIS DEBRIS | 0 |  | 1.0 |  |  |  |  |  |
| 453-DIMH CLEAN | O9110/15 IT1109002 FAIRVIEW BLVD 2. WATER WATER | 0 |  | 500.0 |  |  |  |  |  |
| 453-DIMH CLEAN | 0910/15 IT1109002 FAIRVIEW ELVO 2.EACH | 0 |  |  |  |  | 5.0 |  |  |
| 453- DIMH CLEAN | 09110/15 T1109007 EAGLE DRIVE 1.563102 PITTS CURTIS | R 2:00 |  |  |  |  |  |  |  |
| 453 - DIM Cl CLEAN | 09/10115 T1109007 EAGLE DRIVE 1.568900 HUF , RONY | R 2:00 |  |  |  |  |  |  |  |
| 453 - DUM C CLEAN | O9/10/15 IT1109007 EAGLE DRIVE 1.565561 TRUCK, VAC | 0 | 2:00 |  |  |  |  |  |  |
| 453 - DUM C CLEAN | O9/10/15 IT1109007 EAGLE DRIVE 1.56 DEBRIS DEBRIS | 0 |  | 1.0 |  |  |  |  |  |
| 453 - DIMH CLEAN | 09/10115 IT1109007 EAGLE DRIVE 1.56 WATER WATER | 0 |  | 500.0 |  |  |  |  |  |
| Tuesday - Sep 27.2016 |  |  |  |  |  |  |  |  | 8 of 12 |


| ACTIVITY | DATE LOCATION Resources | Pay Type Lab/Hr | Equip/Hr | Mat | Contr | Misc | WkQty | W/O\# | ACCT\# |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0000131 - Incline Roads |  |  |  |  |  |  |  | DR - D | INAGE |
| 453 - DIM H CLEAN | 09\%10/15 IT1109007 EAGLE DRIVE 1.56 EACH | 0 |  |  |  |  | 7.0 |  |  |
| 453-DIMHHCLEAN | 09/14/15 1T1107001 GOLFERS PASS RI 3102 PITTS CURTIS | R 2:00 |  |  |  |  |  |  |  |
| 453-DIMHCLEAN | 09/14/15 IT1107001 GOLFERS PASS RI5561 TRUCK, VAC | 0 | 2:00 |  |  |  |  |  |  |
| 453.DIMH CLEAN | 09/14/15 TT1107001 GOLFERSPASS RIDEBRIS DEBRIS | 0 |  | 3.0 |  |  |  |  |  |
| 453-DIMH CLEAN | O\$114/15 T1107001 GOLFERS PASS RIWATER WATER | 0 |  | 800.0 |  |  |  |  |  |
| 453 - DIMH CLEAN | 09/14/15 IT1107001 GOLFERS PASS REEACH | 0 |  |  |  |  | 12.0 |  |  |
| 453 -DIMH CLEAN | 09114115 IT1107002 LCHEN COURT 073102 PITTS CURTIS | $\mathrm{R} \quad 0: 30$ |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 09144/15 IT1107002 LCHEN COURT. 075561 TRUCK, VAC | 0 | 0:30 |  |  |  |  |  |  |
| 453 - DIM H CLEAN | 0914/15 IT1107002 LICHEN COURT .07 DEBRIS DEBRIS | 0 |  | 0.5 |  |  |  |  |  |
| 453-DIMHHCLEAN | 09114/15 IT1107002 LICHEN COURT .07 WATER WATER | 0 |  | 100.0 |  |  |  |  |  |
| 453-DIMHH CLEAN | 09/14/15 IT1107002 LICHEN COURT .07EACH | 0 |  |  |  |  | 1.0 |  |  |
| 453-DIMM CLEAN | 09/14/15 IT1107009 WILSONWY . 11 P 3102 PITTS CURTIS | $\mathrm{R} \quad 0: 30$ |  |  |  |  |  |  |  |
| 453-DIMH CLEAN | 09/14/15 IT1107009 WILSONWY . 11 P 5561 TRUCK, VAC | 0 | 0:30 |  |  |  |  |  |  |
| 453-DIMH CLEAN | 09/14/15 IT1107009 WILSONWY . 11 P DEBRIS OEARIS | 0 |  | 0.5 |  |  |  |  |  |
| 453-DIMH CLEAN | 0914/15 T11107009 WLSONWY. 11 P WATER WATER | 0 |  | 100.0 |  |  |  |  |  |
| 453-DUMHCLEAN | 03/14/15 TT1107009 WILSON WY . 11 P EACH | 0 |  |  |  |  | 1.0 |  |  |
| 453 -DUMHCLEAN | O9/14/15 IT1107010 BUNKER CRT 111 13102 PITTS CURTIS | $\mathrm{R} \quad 0: 30$ |  |  |  |  |  |  |  |
| 453 -DUMH CLEAN | 0914/115 IT 1107010 BUNKER CRT. 11 \{5561 TRUCK, VAC | 0 | 0:30 |  |  |  |  |  |  |
| 453 -DUMH CLEAN | 09/14/15 TT1107010 BUNKER CRT, 11 f DEBRIS DEERIS | 0 |  | 0.5 |  |  |  |  |  |
| 453 -DIMM CLEAN | 0914/15 IT1107010 BUNKER CRT. 11 \&WATER WATER | 0 |  | 100.0 |  |  |  |  |  |
| 453-DUMH CLEAN | 09/14/15 IT1107010 BUNKER CRT . 11 IEACH | 0 |  |  |  |  | 1.0 |  |  |
| 453-DIMEH CLEAN | 09H14/15 1T1107013 COUNTRY CLUB D 3102 PITTS CURTIS | R 2:00 |  |  |  |  |  |  |  |
| 453 -DVMH CLEAN | 09/14/15 TT1107013 COUNTRY CLUB D 8900 HUF, RONY | R 2:00 |  |  |  |  |  |  |  |
| 453-DUMH CLEAN | OS141/15 TT1107013 COUNTRY CLUB D 5561 TRUCK, VAC | 0 | 2:00 |  |  |  |  |  |  |
| 453. DUMH CLEAN | OS/14/15 IT1107013 COUNTR CLUB D DEBRIS DEBRIS | 0 |  | 2.0 |  |  |  |  |  |
| 453. DINH CLEAN | 09114/15 IT1107013 COUNTRY CLUE D WATER WATER | 0 |  | 1000.0 |  |  |  |  |  |
| 453. DIM CLEAN | 09/14/15 IT1107013 COUNTRY CLUB D EACH | 0 |  |  |  |  | 13.0 |  |  |
| 453-DUMH CLEAN | 09114/15 IT1107014 MINERS RIDGE CO3102 PITTS CURTIS | R 0:30 |  |  |  |  |  |  |  |
| 453. DUMH CLEAN | 09/14/15 IT1107014 MINERS RIDGE CO5561 TRUCK, VAC | 0 | 0:30 |  |  |  |  |  |  |
| 453. DIM H CLEAN | 09/14/15 IT1107014 MINERS RIDGE CODEBRIS DEBRIS | 0 |  | 1.0 |  |  |  |  |  |
| 453 - DIMH CLEAN | O9/14/15 IT1107014 MINERS RIDGE COWATER WATER | 0 |  | 100.0 |  |  |  |  |  |
| 453-DIMM CLEAN | 09/14/15 171107014 MINERS RIDGE COEACH | 0 |  |  |  |  | 2.0 |  |  |
| 453-DIMHHCLEAN | 0914/15 IT1107022 DIVOT COURT. 113102 PITTS CURTIS | R 0:30 |  |  |  |  |  |  |  |
| 453-DIMMH CLEAN | 09/14/15 IT1107022 DIVOT COURT . 115561 TRUCK, VAC | 0 | 0:30 |  |  |  |  | - |  |

## WORK REPORT DETAIL

From 09\%1//15 10 06/30/I6 Activity $=453$
activity date location Resources Pay Type Lab/Hr Equip/Hr Mat Contr Misc wkety w/O\# acct\#
0000131 - Incline Roads
453 - DIMH CLEAN 453-DIMH CLEAN 453 - DIMWH CLEAN 453 - DUMH CLEAN 453 - DIMH CLEAN 453 - DIMM CLEAN 453 - DIMMH CLEAN 453 - DUIMH CLEAN 453 - DIMMH CLEAN 453 - DIMMH CLEAN 453 -DMMH CLEAN 453 - DIMH CLEAN 453-DVMH CLEAN 453 -DIMMH CLEAN 453 - DIMH CLEAN 453 - DIMH CLEAN 453 - DIMH CLEAN 453 -DIMM CLEAN 453-DIMH CLEAN 453 - DIMH CLEAN 453 -DIMH CLEAN 453 -DIMH CLEAN 453 - OIMH CLEAN 453 - DIMH CLEAN 453 - DIMH CLEAN 453 - DINHH CLEAN 453 - DIMH CLEAN 453-DIMH CLEAN 453 - OIMMH CLEAN 453 -DIMMHCLEAN 453 - DIMH CLEAN 453 - DUMH CLEAN 453 -DIMM CLEAN 453 - DIMH CLEAN

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## WORA REPORT DETAIL

 From 00\%1/115 so 06/30/16 Activity $=453$
WOR^ REPORT DETAIL
From 0901/15 to 06/30/16 Activity $=453$


## wora report detail

## From 09801/15 to 05/30/I6 Activity $=399$



## WORK REPORT DETAIL <br> From 09/01/15 to 00/30/16 Activity $=399$

0000121C - RENO - CENTRAL
399 -EROSION CONTROL O9/15/15 CS4105002 EIGHTH AVENUE 8384 RODRIGUEZ MARQUEZ, J R
$1: 00$
$1: 00$
in
in
운
80.0
10.0
Page 2 of 16

## ACTIVITY DATE LOCATION



## DATE LOCATION

0000121N - RENO - NORTH
DR - DRAINAGE

## WORK REPORT DETAIL

From 0y/गा/15 to 06/30/I6 Activity $=399$
ACTIVITY DATE
W/O\# ACCT\#
DR - DRAINAG

ACTIVITY DATE LOCATION

| ACTIVITY | DATE | LOCATION | Resources |  | /Hr | Equip/Lr | Mat | Contr | Mise | WkQty | W/O\# | ACCT\# |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0000121N - RENO - NORTH |  |  |  |  |  |  |  |  |  |  | DR - | NAGE |
| 399 - EROSION CONTROL | 10127115 | N2202008 CARLSBAD | . 5214 TRUCK, DUMP 12+YD | 0 |  | 10:00 |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 10127115 | N2202008 CARLSBAD | . SCREEN $1112^{\circ}$ SCREEN | 0 |  |  | 20.0 |  |  |  |  |  |
| 399 -EROSION CONTROL | 10128115 | N2305002 WATERASH | E 2256 ROSAS BILL | R | 5:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | $10 / 2815$ | N2305002 WATERASH | E 2361 TRUCK, PICKUP | 0 |  | 5:00 |  |  |  |  |  |  |
| 399-EROSION CONTROL | 10128/15 | N2305002 WATERASH | E 7875 BACKHOE | 0 |  | 5:00 |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 10/28115 | N2305002 WATERASH | E 5528 TRUCK, DUMP 10YD | 0 |  | 5:00 |  |  |  |  |  |  |
| 399 - EROSION CONTROL | $10 / 28115$ | N2305002 WATERASH | E5527 TRUCK, DUMP 10YD | 0 |  | 5:00 |  |  |  |  |  |  |
| 399 -EROSION CONTROL | 10/28/15 | N2305002 WATERASH | E SCREEN $11 / 2^{\prime \prime}$ SCREEN | 0 |  |  | 20.0 |  |  |  |  |  |
| 399-EROSION CONTROL | 1012815 | N2305002 WATERASH | E 1071 QUIGGLE CHAD | R | 5:00 |  |  |  |  |  |  |  |
| 399 -EROSION CONTROL | 10128/15 | N2305002 WATERASH | E 8647 RUIZ, HORACIO | R | 5:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 10/28/15 | N2305002 WATERASH | E 8735 WATT, DILLON | R | 5:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 1102/45 | N2202008 CARLSBAD | . 2049 BURKE JAMES, JR | $R$ | 4:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 11.0215 | N2202008 CARLSBAD | , 8312 CONNOR, DONALD | R | $3: 00$ |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 11/0215 | N2202008 CARLSBAD | . 2361 TRUCK, PICKUP | 0 |  | 3:00 |  |  |  |  |  |  |
| 399-EROSION CONTROL | 1110215 | N2202008 CARLSBAD | . 7874 BACKHOE | 0 |  | 4:00 |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 11,0215 | N2202008 CARLSBAD | . 5209 TRUCK, DUMP 12+YD | 0 |  | 4:00 |  |  |  |  |  |  |
| 399 - EROS!ON CONTROL | 11.0215 | N2202008 CARLSBAD | . RK3-8 ROCK 3"-8" GABION | 0 |  |  | 10.0 |  |  |  |  |  |
| 399 - EROSION CONTROL | 11/0245 | N2202008 CARLSBAD | . 2833 MC CASSIE NICK | R | $3: 00$ |  |  |  |  |  |  |  |
| 399 -EROSION CONTROL | 11103/15 | N2202008 CARLSEA | . 5214 TRUCK, DUMP 12+YD | 0 |  | 7:00 |  |  |  |  |  |  |
| 399 -EROSION CONTROL | 11/03/15 | N2202008 CARLSBA | . 2049 BURKE JAMES, JR | $R$ | 7:00 |  |  |  |  |  |  |  |
| 399 -EROSION CONTROL | 11/03/15 | N2202008 CARLSBAD | . 3182 DEWIT SCOTT | R | 7:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 11103/15 | N2202008 CARLSBAD | . 7874 BACKHOE | 0 |  | 7:00 |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 11/0315 | N2202008 CARLSBA | . 5209 TRUCK, DUMP 12+YD | 0 |  | 7:00 |  |  |  |  |  |  |
| 399 - EROSHN CONTROL | 11103/15 | N2202008 CARLSEAD | . RK3-8 ROCK 3"-8" GABION | 0 |  |  | 24.0 |  |  |  |  |  |
| 399 - EROSION CONTROL | 11104/15 | N2305001 MATTERHO | 12256 ROSAS BILL | R | 5:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 11104/15 | N2305001 MATTERHO | 1071 QUIGGLE CHAD | R | 5:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 11104/15 | N2305001 MATTERHO | 2540 HINES LOREANNE | R | 5:00 |  |  |  |  |  |  |  |
| 399 -EROSHN CONTROL | 11004/15 | N2305001 MATTERHO | 18735 WATT, DILLON | R | 5:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | $11004 / 15$ | N2305001 MATTERHO | 27122014 RAM CREW CAB | 0 |  | 5:00 |  |  |  |  |  |  |
| 399 -EROSION CONTROL | 11/04/15 | N2305001 MATTERHO | 17875 BACKHOE | 0 |  | 5:00 |  |  |  |  |  |  |
| 399 -EROSION CONTROL | 11/04/15 | N2305001 MATTERHO | L5528 TRUCK, DUMP 10YD | 0 |  | 5:00 |  |  |  |  |  |  |
| 399 - EROSHN CONTROL | 11104/15 | N2305001 MATTERHO | ( 5208 TRUCK, DUMP 12+YD | 0 |  | 5:00 |  |  |  |  |  |  |
| 399 - EROSHON CONTROL | 11/04/15 | N2305001 MATTERKO | LAB3/4 3/4* BASE MATERIAL | 0 |  |  | 24.0 |  |  |  |  |  |
| 399 - EROSION CONTROL | 1105/15 | N2305001 MATTERHO | 2256 ROSAS BILL | R | 3:30 |  |  |  |  |  |  |  |



## WOKA REPORT DETAIL


Pay Type Lab/Hr Equip/Hr Mat Contr Mise WkQty W/O\# ACCTH
DR - DRAINAGE


## WORn REPORT DETAIL

From 09/0i/h to 06/30/76 Activity $=399$

| ACTIVITY | DATE | LOCATION | Resources |  | Type | Lab/Hr | Equip/Hr | Mat | Contr | Misc | WkQty | W/O\# | ACCT\# |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0000121N - RENO - NORTH |  |  |  |  |  |  |  |  |  |  |  | DR - D | INAGE |
| 399- EROSION CONTROL | 01/21/16 | N2103038 SNIPE DRIVE. 17 P | P 8312 CONNOR, DONALD | R |  | 3:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/21/16 | N2103038 SNIPE ORIVE 17 P | P 2441 TRUCK, PICKUP | 0 |  |  | 3:00 |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 0121116 | N2103038 SNIPE DRIVE 17 P | PSCREEN $11 / 2$ SCREEN | 0 | 0 |  |  | 1.0 |  |  |  |  |  |
| 399 - EROSION CONTROL | 0121116 | N2401002 SPEARHEAD WAY | 5527 TRUCK, DUMP 10YD | 0 | 0 |  | 4:00 |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/21/16 | N2401002 SPEARHEAD WAY | 552 T TRUCK, DUMP 10YD | 0 | 0 |  | 4:00 |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/21/16 | N2401002 SPEARHEAD WAY | 2256 ROSAS BILL |  | R | 4:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/21/16 | N2401002 SPEARHEAD WAY | 5204 TRUCK, DUMP 12+YD |  | 0 |  | 4:00 |  |  |  |  |  |  |
| 399 - EROSWN CONTROL | 01/21/16 | N2401002 SPEARHEAD WAY | RK3-8 ROCK $3^{*}-8^{8}$ GABION |  | 0 |  |  | 12.0 |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/21/16 | N2401002 SPEARHEAD WAY | 3600 GONGAWARE MARK |  | R | 4:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/21116 | N2401002 SPEARHEAD WAY | 1071 QUiGGle CHAD |  | R | 4:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 0121116 | N2401002 SPEARHEAD WAY | 3173 GOTCHER DENNISE |  | R | 4:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/21/16 | N2401002 SPEARHEAD WAY | 27122014 RAM CREW CAB |  | 0 |  | 4:00 |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01211/16 | N2401002 SPEARHEAD WAY | 7875 ВАСКНОе |  | 0 |  | 4:00 |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/2216 | N2401002 SPEARHEAD WAY | 2256 ROSAS BILL |  | R | 5:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/2216 | N2401002 SPEARHEAD WAY | 3600 GONGAWARE MARK |  | R | 5:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONEROL | 01/2216 | N2401002 SPEARHEAD WAY | 1071 Quiggle chao |  | R | 5:00 | . |  |  |  |  |  |  |
| 399.EROSION CONTROL | 012216 | N2401002 SPEARHEAD WAY | 3173 GOTCHER DENNISE |  | R | 5:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/2216 | N2401002 SPEARHEAD WAY | 27122014 RAM CREW CAB |  | 0 |  | 5:00 |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/2216 | N2401002 SPEARHEAD WAY | 7875 ВАСКНОE |  | 0 |  | 5:00 |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/22116 | N2401002 SPEARHEAD WAY | 5527 TRUCK, DUMP 10YD |  | 0 |  | 5:00 |  |  |  |  |  |  |
| 399 - EROSION CONTROL | $01 / 2216$ | N2401002 SPEARHEAD WAY | 5528 TRUCK, DUMP 10YD |  | 0 |  | 5:00 |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/2216 | N2401002 SPEARHEAD WAY | 5204 TRUCK, DUMP 12+YD |  | 0 |  | 5:00 |  |  |  |  |  |  |
| $399-E R O S I O N ~ C O N T R O L ~$ | 01/22116 | N2401002 SPEARHEAD WAY | 7843 EXCAVATOR |  | 0 |  | 5:00 |  |  |  |  |  |  |
| 399 -EROSION CONTROL | 01/2216 | N2401002 SPEARHEAD WAY | SCREEN $1112^{\prime}$ SCREEN |  | 0 |  |  | 40.0 |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/27/16 | NORR9999 RED ROCK ROAD | 5359 THOMSEN STEVEN |  | R | 1:30 |  |  |  |  |  |  |  |
| 399 -EROSION CONTROL | 0127/16 | NORR9999 RED ROCK ROAD | 8312 CONNOR, DONALD |  | R | 1:30 |  |  | - |  |  |  |  |
| 399 -EROSION CONTROL | 01/27/16 | NORR9999 RED ROCKROAD | 3173 GOTCHER DENNISE |  | R | 1:30 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01127/16 | NORR9999 RED ROCKROAD | 7874 BACKHOE |  | 0 |  | 1:30 |  |  |  |  |  |  |
| 399 -EROSION CONTROL | 01127/16 | NORR9999 RED ROCKROAD | 27112014 RAM CREW CAB |  | 0 |  | 1:30 |  |  |  |  |  |  |
| 399 -EROSION CONTRCL | 01127/16 | NORR9999 RED ROCKROAD | 5527 TRUCK, DUMP 10YD |  | 0 |  | 1:30 |  |  |  |  |  |  |
| $399-E R O S I O N ~ C O N T R O L ~$ | $01 / 27 / 18$ | NORRggg RED ROCK ROAD | 6628 TRANSPORT |  | 0 |  | 1:30 |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/28116 | N2401002 SPEARHEAD WAY | 2256 ROSAS BILL |  | R | 8:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01/28/16 | N2401002 SPEARHEAD WAY | 2856 HOLLINGER RICK |  | R | 8:00 |  |  |  |  |  |  |  |
| 399 - EROSION CONTROL | 01128/16 | N2401002 SPEARHEAD WAY | 2049 BURKE JAMES, JR |  | R | 8:00 |  |  |  |  |  |  |  |

## WORn REPORT DETAIL


ACTVITY DATE LOCATION Resources Pay Type Lab/Hr Equip/Hr Mat Contr Misc WkQty W/O\# ACCT\#
DR - DRAINAGE

## WORK REPORT DETAIL

 From 09/01/15 to 06/30/16 Activity $=39 y$0000121N - RENO - NORTH
ACTIVTTY DATE LOCATION Resources Pay Type Lab/Ar Equip/Hr Mat Contr Misc WkOty w/O\# ACCT\#
DR - DRAINAGE


0000121 N - RENO - NORTH
From og/al/IS to 06/30/IG Activity $=399$

## WOR^ REPORT DETAIL

ACTIVITY DATE LOCATION


## WORn REPORT DETAIL

 From $09 \% 1 / 115$ to 06/30/I6 Activity $=399$ From 09\%0I/IS $1006 / 30 / 16$ Activity $=399$
Worn report detall
ACTIVITY DATE
ACTVITY DATE LOCATION Resources Pay Type Lab/Hr Equip/Hr Mat Contr Misc WkQty w/O\# acct\#
DR - DRAINAGE
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## WORK REPORT DETAIL

From 09/01/15 to 06/30/16 Activity $=450$

## ACTIVITY



ACTIVITY DATE LOCATION Resources Pay Type Lab/Er Equip/Hx Mat Contr Misc WkQty W/O\# ACCT\#
DR - DRAINAGE

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## WORn REPORT DETAIL

 From 09/0I/IS to 06/30/16 Activity $=450$
## activity date location



## WORK REPORT DETAIL

 From 09\%/0I/I5 to 06/30/16 Activity $=450$
DR - DRAINAGE


## WORn REPORT DETAIL

From 09mills to 06/30/16 Activily $=450$


## WORK REPORT DETAIL

From I9501//5 to 06/30/16 Activity $=450$




## WORn REPORT DETALI

From 090n/ 15 to 06/30/16 Activity $=450$




## WORK REPORT DETAIL

From 05A1/1/15 to 00/30/16 Activily $=450$


## WORn REPORT DETAIL

From $09 / 0 I / I S$ to $06 / 30 / 16$ Activity $=450$
0000121 N - RENO - NORTH

| 450 - DITCH CLEAN | 09/23/15 N2305012 DEODAR WAY 1.85 5204 TRUCK, DUMP 12+YD |
| :---: | :---: |
| 450 - DITCH CLEAN | 0912315 N2305012 DECDAR WAY 1.8EDEBRIS DEBRIS |
| 450- DITCH CLEAN | 09123/15 N2305012 DEODAR WAY 1.85LF |
| 450 - DITCH CLEAN | 09/23/15 N2305014 MISTLETOE STREE 3173 GOTCHER DENNIS E |
| 450 -DITCH CLEAN | 09/2315 N2305014 MISTLETCE STREE 3600 GONGAWARE MARK |
| 450 - DITCH CLEAN | 09/23/15 N2305014 MISTLETOE STREE 8735 WATT, DILLON |
| 450 - DITCH CLEAN | O9/23/15 N2305014 MISTLETOE STREE 7875 BACKHOE |
| 450-DITCH CLEAN | 09/23115 N2305014 MISTLETOE STREE 27112014 RAM CREW CAB |
| 450- DITCH CLEAN | 09123/15 N2305014 MISTLETOE STREE 5204 TRUCK, DUMP 12+YD |
| 450 -DITCH CLEAN | 09123/15 N2305014 MISTLETOE STREE DEBRIS DEBRIS |
| 450-DITCH CLEAN | 09/23/15 N2305014 MISTLETOE STREELF |
| 450-DITCH CLEAN | 09/23/15 N2306007 BIRCH ST . $99 \mathrm{P} \quad 2256$ ROSAS BILL |
| 450 - DITCH CLEAN | 09/23/15 N2306007 EIRCH ST . 99 P 1071 QUIGGLE CHAD |
| 450 - DITCH CLEAN | 09/23115 N2306007 BIRCH ST . 99 P DEBRIS DEERIS |
| 450 - DITCH CLEAN | 09/23115 N2306007 EIRCH ST 99 P LF |
| 450 - DITCH CLEAN | 09/23115 N2306007 EIRCH ST . 99 P 8647 RUIZ, HORACIO |
| 450-DITCH CLEAN | 09/23/15 N2306007 BIRCH ST .99 P 27122014 RAM CREW CAB |
| 450 - DITCH CLEAN | 09/2315 N2305007 BIRCH ST. $99 \sim 7843$ EXCAVATOR |
| 450. DITCH CLEAN | 09123/15 N2305007 BIRCH ST 99 P 5528 TRUCK, DUMP 10YD |
| 450- DITCH CLEAN | 09123115 N2306007 BIRCH ST . 99 P 5527 TRUCK, DUMP 10YD |
| 450 - DITCH CLEAN | 09/24/15 N2202010 CIMARRON DRIVE 2049 gURKE JAMES, JR |
| 450 - DITCH CLEAN | 09/24/15 N2202010 CIMARRON DRIVE 3182 DEWITT SCOTT |
| 450 - DITCH CLEAN | 09/24/15 N2202010 CIMARRON DRIVE 8876 FLOOD, JON |
| 450 - DITCH CLEAN | 09/24/15 N2202010 CIMARRON DRIVE 2361 TRUCK, PICKUP |
| 450-DITCH CLEAN | 09/24/15 N2202010 CIMARRON DRIVE 7874 BACKHOE |
| 450 - DTTCH CLEAN | 09/24/15 N2202010 CIMARRON DRIVE 5214 TRUCK, DUMP 12+YD |
| 450 - DITCH CLEAN | 09124/15 N2202010 CIMARRON DRIVE DEERIS DEBRIS |
| 450- DTTCH CLEAN | 09/24/15 N2202010 CIMARRON DRIVE LF |
| 450- DITCH CLEAN | 09/24/15 N2305014 MISTLETOE STREE 5201 TRUCK, DUMP 12+YD |
| 450 - DITCH CLEAN | 09/24/15 N2305014 MISTLETOE STREE 7743 EXCAVATOR |
| 450 - DITCH CLEAN | 09/24/15 N2305014 MISTLETOE STREEDEBRIS DEBRIS |
| 450 - DITCH CLEAN | 09/24/15 N2305014 MISTLETOE STREELF |
| 450 - DITCH CLEAN | 09/24/15 N2305014 MISTLETOE STREE3173 GOTCHER DENNIS E |
| 450- DITCH CLEAN | 09/24/15 N2305014 MISTLETOE STREE 8312 CONNOR, DONALD |

Tuesday - Sep 27,2016


## WORn REPORT DETAIL

From 0901/IS to 06/30/16 Activity $=450$
ACTvity Date location Resources Pay Tppe Lablir Equiplir Mat Contr Mise wkety wiot accty
0000121 N - RENO - NORTH

|  | N2306003 NECTAR STREET . 5214 TRUCK, DUMP 12+YD |
| :---: | :---: |
| 0912811 | 5 N2306003 NECTAR STREET \DEBRIS DEBRIS |
| 0972815 | N2306003 NECTAR STREET SLI |
| 09129 | N2202016 SHENANDOAH DRI 2049 BURKE JAMES, JR |
| 0912 | N2202016 SHENANDOAH DRI 8312 CONNOR, DONALD |
| 0912 | N2202016 SHENANDOAH DRI 2361 TRUCK, PICKUP |
| 092911 | 22016 SHENANDOAH DR1 7874 BACKHOE |
| 09/2911 | N2202016 SHENANDOAH DR1 5201 TRUCK, DUMP 12+YD |
| 09129 | 2016 SHENANDO |
| $09 / 29$ | N2202016 SHENANDO |
| 0929 | 305014 MISTLETOE STREE 248 |
| 09/23 | N2305014 MISTLETOE STREE 8647 RUIZ, HORACIO |
| 091291 | N2305014 MISTLETOE STREE 8735 WATT, DILLON |
| 0912911 | N2305014 MISTLETOE STREE 7848 EXCAVATOR |
| 09/2911 | N2305014 MISTLETOE STREE 27112014 RAM CREW CAB |
| $09 / 29$ | N2305014 MISTLETOE STREE 5527 TRUCK, DUMP 10YD |
| 09129 | N2305014 MISTLETOE STREE DEBRIS DEBRIS |
| 09129 | N2305014 MISTLETOE STREE LF |
| 10101 | N2305010 FIR DRIVE 1.36 P 2256 ROSAS BILL |
| 10.01 | N2305010 FIR DRIVE 1.36 P 1071 QURGGLE CHAD |
| 10.01 | N2305010 FIR DRIVE 1.36 P $8647 \mathrm{RULZ}, \mathrm{HORACIO}$ |
| 10101 | N2305010 FIR DRIVE 1.36 P 27122014 RAM CREW CAB |
| 1001 | N2305010 FIR DRIVE 1.36 P 7875 BACKHOE |
| 1001/1 | N2305010 FIR DRIVE 1.36 P 5528 TRUCK, DUMP 10YD |
| 1001/1 | N2305010 FIR DRIVE 1.36 P 5214 TRUCK, DUMP 12+YD |
| 1001/1 | N2305010 FIR DRIVE 1.36 P DEBRIS DEBRIS |
| 1001/1 | N2305010 FIR DRIVE 1.36 P LF |
|  | N2305014 MISTLETOE STREE 3173 GOTCHER DENNIS E |
| 1001/1 | N2305014 MISTLETOE STREE 7848 EXCAVATOR |
| 10 O | N2305014 MISTLETOE STREE2711 2014 RAM CREW CAB |
| 101 | N2305014 MISTLETOE STREE 5204 TRUCK, DUMP 12+YD |
| 10 | N2305014 MISTLETOE STREE DEBRIS DEBRIS |
| 100 | N2305014 MISTLETOE STREELF |
| 1001/15 | 4 MISTLETOE STREE 3600 GONGAWARE MARK |

450 -DITCH CLEAN
450 - DITCH CLEAN
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## WORx REPORT DETALL

 From 091/1/15 to 066/30/16 Activity $=4.50$DATE LOCATION
0000121N - RENO - NORTH $\begin{array}{llll}\text { 10/101/15 } & \text { N2305014 MISTLETOE STREE } 8735 \text { WATT, DILLON } & \text { R } & 7: 00 \\ \text { 10105115 N2306004 UTAH ST . } 60 \text { U } & 2256 \text { ROSAS BILLL } & \text { R } & 3: 30\end{array}$ $\stackrel{\text { ¢ }}{\sim}$ 육 욱 $\stackrel{\stackrel{\circ}{i}}{\stackrel{\circ}{0}} \stackrel{8}{-}$
$\underset{\sim}{8} \underset{\sim}{9}$

## WORa REPORT DETAIL

From 09/01/15 to 06/30/16 Activily $=450$


## WORK REPORT DETAIL

 From 09/0 $1 / 15$ to $06 / 30 / 76$ Activity $=450$0000121N - RENO - NORTH
450 - DITCH CLEAN
450 - DTCCH CLEAN
450-DITCH CLEAN 450-DITCHCLEAN 450- OTCH CLEAN 450- DITCH CLEAN 450- DITCHCLEAN 450 - DITCH CLEAN 450. DTTCH CLEAN 450- DITCH CLEAN 450- DTCH CLEAN 450- DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450- DITCH CLEAN 450. DTTCH CLEAN 450. DITCH CLEAN 450- DITCH CLEAN 450- DITCH CLEAN 450- DITCH CLEAN 450- DITCH CLEAN 450- DITCH CLEAN 450- DTTCH CLEAN 450-DITCH CLEAN 450- DITCH CLEAN 450-0ITCH CLEAN 450- DITCH CLEAN 450-DITCH CLEAN 450-DTCH CLEAN 450 - DITCH CLEAN 450- DITCH CLEAN 450 - DITCH CLEAN 450 - DICHHCLEAN


| MORK | $R T$ | DETAIL |  |  |  |  |  |  |  |  | $\cdots$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From 09\%1/15 so 0 | $t y=450$ |  |  |  |  |  |  |  |  |  |  |
| ACTIVITY | DATE | LOCATION Resources | Pay 1 | b/Hr | Equip/Er | Mat | Contr | Misc | WkQty | W/O\# | ACCTH |
| 0000121N - RENO |  |  |  |  |  |  |  |  |  | DR - | NAGE |
| 450-DITCH CLEAN | 10122145 | N2305001 MATTERHORN BOL 8312 CONNOR, DONALD | R | 1.00 |  |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 10122115 | N2305001 MATTERHORN BOL 2361 TRUCK, PICKUP | 0 |  | 1:00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 1012215 | N2305001 MATTERHORN BOL 7875 8ACKHOE | 0 |  | 1:00 |  |  |  |  |  |  |
| 450-DITCHCLEAN | 10122/15 | N2305001 MATTERHORN BOL 5528 TRUCK, DUMP 10YD | 0 |  | 1:00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 1012215 | N2305001 MATTERHORN BOL 5204 TRUCK, DUMP 12+YD | 0 |  | 1:00 |  |  |  |  |  |  |
| 450- DITCH CLEAN | 10122115 | N2305001 MATTERHORN BOL DEBRIS DEBRIS | 0 |  |  | 5.0 |  |  |  |  |  |
| 450-DITCH CLEAN | 1012215 | N2305001 MATTERHORN 801 LF | 0 |  |  |  |  |  | 100.0 |  |  |
| 450-DITCH CLEAN | 1026/15 | N2202008 CARLSEAD ROAD . 2049 BURKE JAMES, JR | R | 5:00 |  |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10/26/15 | N2202008 CARLSBAD ROAD . 3182 DEWITT SCOTT | R | 5:00 |  |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10/26/15 | N2202008 CARLSBAD ROAD . 8735 WATT, DILLON | R | 5:00 |  |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10/26/15 | N2202008 CARLSBAD ROAD . 3030 TRUCK, PICKUP | 0 |  | 5:00 |  |  |  |  |  |  |
| 450- DITCH CLEAN | 10126/15 | N2202008 CARLSBAD ROAD . 7874 BACKHOE | 0 |  | 5.00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10/26/15 | N2202008 CARLSBAD ROAD . 3026 TRUCK, PICKUP | 0 |  | 5:00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10/26/15 | N2202008 CARLSBAD ROAD . DEERIS DEBRIS | 0 |  |  | 10.0 |  |  |  |  |  |
| 450- DITCH CLEAN | 10/26115 | N2202008 CARLSBAD ROAD . LF | 0 |  |  |  |  |  | 145.0 |  |  |
| 450-DITCH CLEAN | 10/26/15 | N2305002 WATERASH STREE 2256 ROSAS BILL | R | 4:00 |  |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10126115 | N2305002 WATERASH STREE 1071 QUIGGLE CHAD | R | 4:00 |  |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 10126/15 | N2305002 WATERASH STREE 8647 RUIZ, HORACIO | $R$ | $4: 00$ |  |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10126/15 | N2305002 WATERASH STREE 2361 TRUCK, PICKUP | 0 |  | 4:00 |  |  |  |  |  |  |
| $450-$ DITCH CLEAN | 10/26/15 | N2305002 WATERASH STREE7875 BACKHOE | 0 |  | 4:00 |  |  |  |  |  |  |
| 450 -DITCH CLEAN | 10126/15 | N2305002 WATERASH STREE5528 TRUCK, DUMP 10YD | 0 |  | 4:00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10/26/15 | N2305002 WATERASH STREE5527 TRUCK, DUMP 10YD | 0 |  | 4:00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10126/45 | N2305002 WATERASH STREE DEBRIS DEBRIS | 0 |  |  | 15.0 |  |  |  |  |  |
| 450- DITCH CLEAN | 10126/15 | N2305002 WATERASH STREE SCREEN $11 / 2^{\circ}$ SCREEN | 0 |  |  | 15.0 |  |  |  |  |  |
| 450-DITCH CLEAN | 10126/15 | N2305002 WATERASH STREE LF | 0 |  |  |  |  |  | 350.0 |  |  |
| 450-DICH CLEAN | 10227/15 | N2305002 WATERASH STREE 1071 QUIGGLE CHAD | R | 3:00 |  |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10127/15 | N2305002 WATERASH STREE 8647 RUIZ, HORACIO | R | $3: 00$ |  |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10127/15 | N2305002 WATERASH STREE 2361 TRUCK, PICKUP | 0 |  | 3:00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10127/15 | N2305002 WATERASH STREE 7875 BACKHOE | 0 |  | 3:00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10/27/45 | N2305002 WATERASH STREE 5528 TRUCK, DUMP 10YD | 0 |  | 3:00 |  |  |  |  |  |  |
| 450- DITCH CLEAN | 10/27M5 | N2305002 WATERASH STREE 5527 TRUCK, DUMP 10YD | 0 |  | 3:00 |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 10127M5 | N2305002 WATERASH STREE DEERIS DEBRIS | 0 |  |  | 15.0 |  |  |  |  |  |
| 450-DITCH CLEAN | 10127115 | N2305002 WATERASH STREESCREEN $11 / 2{ }^{\prime \prime}$ SCREEN | 0 |  |  | 20.0 |  |  |  |  |  |
| 450-DITCH CLEAN | 10127/15 | N2305002 WATERASH STREE LF | 0 |  |  |  |  |  | 340.0 |  |  |

## WORn REPORT DETALL

 From 0901/13 to 06/30/16 Activity $=850$| ACTIVITY | DATE | LOCATION | Resources |  | y Type | Lab/Hr | Equip/Hr | Mat | Contr | Misc | WkQty | W/O\# | ACCT\# |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0000121N - RENO - NORTH |  |  |  |  |  |  |  |  |  |  |  | DR - D | INAGE |
| 450-DITCH CLEAN | 10127115 | N2305002 WATERASH | E2256 ROSAS BILL |  | R | 3:00 |  |  |  |  |  |  |  |
| 450 -ditch Clean | 110345 | N2305001 MATTERHO | 12256 ROSAS BILL |  | R | 8:00 |  |  |  |  |  |  |  |
| 450-Ditch Clean | 1103115 | N2305001 MATTERHO | 1071 Quiggle chad |  | R | 8:00 |  |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 1103115 | N2305001 MATTERHO | 13173 GOTCHER OENNIS E |  | R | 6:00 |  |  |  |  |  |  |  |
| 450-DITCH CLEAN | 110315 | N2305001 MATTERHO | 8735 WATT, DILLON |  | R | 6:00 |  |  |  |  |  |  |  |
| 450 - Ditch Clean | 1110315 | N2305001 MATTERHO | 27122014 RAM CREW CAB |  | 0 |  | 8:00 |  |  |  |  |  |  |
| $450-$ DITCH CLEAN | 1103/15 | N2305001 MATTERHO | 15528 TRUCK, DUMP 10YD |  | 0 |  | 8:00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 1103115 | N2305001 MATTERHO | 5527 TRUCK, DUMP 10YD |  | 0 |  | 6:00 |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 1103115 | N2305001 MATTERHO | debris oebris |  | 0 |  |  | 120.0 |  |  |  |  |  |
| 450 - dith Clean | 1110314 | N2305001 MATTERHO |  |  | 0 |  |  |  |  |  | 1160.0 |  |  |
| 450 -ditch Clean | 1104/15 | N2305001 MATTERHO | 12256 ROSAS BJLL |  | R | 3:00 |  |  |  |  |  |  |  |
| 450 -dich Clean | 1104/15 | N2305001 MATTERHO | ( 1071 QUIGGLE CHAD |  | R | 3:00 |  |  |  |  |  |  |  |
| 450 - Ditch Clean | 11/04/15 | N2305001 MATTERHO | 2540 HINES LOREANNE |  | R | 3:00 |  |  |  |  |  |  |  |
| 450-DITCH CLEAN | 1104/15 | N2305001 MATTERHO | 18735 WATT, DILLON |  | R | 3:00 |  |  |  |  |  |  |  |
| 450. DITCH CLEAN | 1104/15 | N2305001 MATTERHO | 27122014 RAM CREW CAB |  | 0 |  | 3:00 |  |  |  |  |  |  |
| 450. otich clean | 1104115 | N2305001 MATTERHO | L528 TRUCK, DUMP 10YD |  | 0 |  | 3:00 |  |  |  |  |  |  |
| 450-dith clean | 1104/15 | N2305001 MATTERHO | ( 5208 TRUCK, DUMP 12+YD |  | 0 |  | 3:00 |  |  |  |  |  |  |
| 450-DITCHCLEAN | 1104/15 | N2305001 MATTERHO | 17843 EXCAVATOR |  | 0 |  | 3:00 |  |  |  |  |  |  |
| 450.dTCHCLEAN | 1104/15 | N230500\% MATTERHO | debris debris |  | 0 |  |  | 15.0 |  |  |  |  |  |
| 450. Ditch Clean | 1104/15 | N2305001 МАТТЕRHO |  |  | 0 |  |  |  |  |  | 510.0 |  |  |
| 450 - dich Clean | 11105145 | N2305001 MATTERHO | (2256 ROSAS B1LL |  | R | 4:00 |  |  |  |  |  |  |  |
| 450-ditch Clean | 1105/15 | N2305001 MATTERHO | ( 1071 QUIGGLE CHAD |  | R | 4:00 |  |  |  |  |  |  |  |
| 450-DITCH CLEAN | 1105/15 | N2305001 MATTERHO | 2485 TRESLEY JAMES B |  | R | 4:00 |  |  |  |  |  |  |  |
| 450 -ditch clean | 1105/15 | N2305001 MATTERHO | 127122014 RAM CREW CAB |  | 0 |  | 4:00 |  |  |  |  |  |  |
| 450-ditch Clean | 1105/15 | N230500 ${ }^{\text {MATTERHO }}$ | 15528 TRUCK, DUMP.10YD |  | 0 |  | 4:00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 11055115 | N2305001 MATTERHO | 5201 TRUCK, DUMP 12+YD |  | 0 |  | 4:00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 1105/15 | N2305001 MATJERHO | 17743 EXCAVATOR |  | 0 |  | 4:00 |  |  |  |  |  |  |
| 450-ditch Clean | 11055115 | N2305009 MATTERHO | degris debris |  | 0 |  |  | 30.0 |  |  |  |  |  |
| 450-dITCH CLEAN | 11,05/15 | N2305001 MATTERHO |  |  | 0 |  |  |  |  |  | 1785.0 |  |  |
| 450-ditch clean | 11006115 | N2305001 MATTERHO | 1071 QUIGGLE CHAD |  | R | 2:00 |  |  |  |  |  |  |  |
| 450-Ditch Clean | 11006/15 | N2305001 MATTERHO | L 2485 TRESLEY JAMES B |  | R | 2:00 |  |  |  |  |  |  |  |
| 450-ditch Clean | 11/06/15 | N2305001 MATTERHO | 2540 HINES LOREANNE |  | R | 2:00 |  |  |  | . |  |  |  |
| 450-ditch Clean | 1105/15 | N2305001 MATTERHO | 5528 TRUCK, DUMP 10YD |  | 0 |  | 2:00 |  |  |  |  |  |  |
| 450-DTCH CLEAN | 1100/15 | N2305001 MATTERHO | 5201 TRUCK, DUMP 12+YD |  | 0 |  | 2:00 |  |  |  |  |  |  |

0000121 N - RENO - NORT
DATE LOCATION
DR - DRAINAGE





## WORn REPORT DETAIL

From 09\%1/1/5 to 06/30/16 Activity $=450$
ACTIVTY DATE LoCATION Resources Pay Type Lablfr Equipltr Mat Contr Mise wkefy woot AccTt
D000121N - RENO - NORTH


## WORn REPORT DETALL

## From $19 / 11 / 1 / 5$ to 06/30/16 Activity $=450$ ACTIVTTY DATE

0000121N - RENO - NORTH

| 450-DITCH CLEAN | 1217715 N2402018 CACTUS VIEW DRI 3173 GOTCHER DENNIS E |
| :---: | :---: |
| 450- Ditch clean | 1217115 N2402018 CACTUS VIEW DRIV 27122014 RAM CREW CAB |
| 450-DITCH CLEAN | 12117/15 N2402018 CACTUS VIEW DRI 5528 TRUCK, DUMP 10YD |
| 450- DITCH CLEAN | 1217715 N2402018 CACTUS VIEWDRI 7843 EXCAVATOR |
| 450-DITCH CLEAN | $1217 / 15$ N2402018 CACTUS VIEW DR1 5527 TRUCK, DUMP 10YD |
| 450-DITCH CLEAN | 1217115 N2402018 CACTUS VIEW DRII DEBRIS DEBRIS |
| 450-DITCH CLEAN | 12117/15 N2402018 CACTUS VIEW DRIPLF |
| 450-DITCHCLEAN | 12121/15 N2401002 SPEARHEAD WAY 2256 ROSAS BILL |
| 450 - OITCHCLEAN | 12211/15 N2401002 SPEARHEAD WAY 2856 HOLLINGER RICK |
| 450-DITCHCLEAN | 12121/15 N2401002 SPEARHEAD WAY 3173 GOTCHER DENNISE |
| 450-DITCHCLEAN | 1221115 N2401002 SPEARHEAD WAY 1071 OUIGGLE CHAD |
| 450-DITCH CLEAN | 1221/15 N2401002 SPEARHEAD WAY 27122014 RAM CREW CAB |
| 450-DITCHCLEAN | 1221/15 N2401002 SPEARHEAD WAY 5528 TRUCK, DUMP 10YD |
| 450-DITCH CLEAN | 1221/15 N2401002 SPEARHEAD WAY DEBRIS DEBRIS |
| 450-DITCHCLEAN | 1221/15 N2401002 SPEARHEAD WAY LF |
| 450-DITCH CLEAN | 1212215 N2401002 SPEARHEAD WAY 2256 ROSAS BILL |
| 450 - DITCH CLEAN | 1222115 N2401002 SPEARHEAD WAY 2856 HOLLINGER RICK |
| 450-DITCH CLEAN | 12122145 N2401002 SPEARHEAD WAY 1071 QUIGGLE CHAD |
| 450- Ditch clean | 122215 N2401002 SPEARHEAD WAY 27122014 RAM CREW CAB |
| 450-DITCHCLEAN | 1212215 N2401002 SPEARHEAD WAY 5528 TRUCK, DUMP 10YD |
| 450-DITCH CLEAN | 12/22/15 N2401002 SPEARHEAD WAY 7843 EXCAVATOR |
| 450-DITCH CLEAN | 1212215 N2401002 SPEARHEAD WAY DEBRIS DEBRIS |
| 450 - DITCH CLEAN | 1222215 N2401002 SPEARHEAD WAY LF |
| 450 - DITCH CLEAN | 1223/15 N2401002 SPEARHEAD WAY 2256 ROSAS BLL |
| 450-DITCH CLEAN | 12233/15 N2401002 SPEARHEAD WAY 2856 HOLLINGER RICK |
| 450-DITCHCLEAN | $1223 / 15$ N2401002 SPEARHEAD WAY 1071 QUIGGLE CHAD |
| 450-Ditch CLEAN | 1223/15 N2401002 SPEARHEAD WAY 27122014 RAM CREW CAB |
| 450-DITCHCLEAN | 12/23/15 N2401002 SPEARHEAD WAY 5528 TRUCK, DUMP 10YD |
| 450-DITCH CLEAN | 12233/15 N2401002 SPEARHEAD WAY 7843 EXCAVATOR |
| 450-DITCH CLEAN | 12123/15 N2401002 SPEARHEAD WAY DEBRIS DEERIS |
| 450-DITCHCLEAN | 121281515 N2401002 SPEARHEAD WAY 2256 ROSAS BILL |
| 450-DITCH CLEAN | 1228/15 N2401002 SPEARHEAD WAY 27122014 RAM CREW CAB |
| 450-DITCH CLEAN | 1228815 N2401002 SPEARHEAD WAY 7843 EXCAVATOR |

## WORa REPORT DETAIL

000012 KN - RENO - NORTH

## From $04 M 1 / 15$ to $06 / 30 / 16$ Activity $=450$ <br> ACTIVITY



## WORK REPORT DETAIL

 From 09\%01/15 $10006 / 30 / 16$ Activity $=450$ACTIVITY DATE LOCATION Resources Pay Type Lab/Hr Equip/Hr Mat Coatr Mise WkQty W/O\# ACCT\# 0000121N - RENO - NORTH

## 450 - DITCH CLEAN

 450-DITCH CLEAN 450-DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450-DTTCH CLEAN 450 - DITCH CLEAN 450- DTCH CLEAN 450- DITCH CLEAN 450-DITCH CLEAN 450- DTTCH CLEAN 450-DITCH CLEAN 450 -DITCH CIEAN 450 - DTCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450- DITCH CLEAN 450 -DITCH CLEAN 450 - DITCH CLEAN 450-DITCH CLEAN 450 -DITCH CLEAN 450 - DITCH CLEAN 450-DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450-DITCH CLEAN 450 -DITCH CLEAN 450 -DITCH CLEAN0000121N - RENO - NORTH


## WORA REPORT DETALL

 From 09/01/15 so 06/30/16 Activity $=450$
## ACTIVITY DATE LOCATION





ACTIVITY DATE LOCATION Resources Pay Type Lab/Hr Equip/Hr Mat Contr Misc WkQty W/O\# ACCT\#
0000121S - RENO - SOUTH

| 450-dITCH CLEAN | 09117/15 S6205003 THOMAS CREEK RIDEBRIS DEBRIS | 0 |
| :---: | :---: | :---: |
| 450-DITCH CLEAN | 09117/15 S6205003 THOMAS CREEK RILF | 0 |
| 450-DITCH CLEAN | OS/2315 MS6301010 SADDLEBOW DRI 2050 KNOWLES MICHAEL | R |
| 450 - Ditch Clean | 09/23/15 MS6301010 SADDLEBOW DRI 7852 BACKHOE | 0 |
| 450 - DITCH CLEAN | 0912315 MS6301010 SADDLEBOW DR1 5206 TRUCK, DUMP 12+YD | 0 |
| 450-DITCH CLEAN | 09123/15 MS6301010 SADDLEBOW DRI 2521 TRUCK, PICKUP | 0 |
| 450-DITCH CLEAN | 09123/15 MS6301010 SADDLEBOW DRI DEBRIS DEBRIS | 0 |
| 450-DITCHCLEAN | 09/23/15 MS6301010 SADDLEBOW DRILF | 0 |
| 450 - DTCH CLEAN | 09/23115 MS6301010 SADDLEBOW DRI 2087 HOUK RALPH | R |
| 450 - DITCHCLEAN | 09/29/15 51103005 HIDDEN HIGHLAND DEBRIS DEBRIS | 0 |
| 450 - DITCH CLEAN | 09/29115 S1103005 HIDDEN HIGHLANDLF | 0 |
| 450 - Ditch Clean | 09/2914 S1103005 HIDDEN HIGHLAND 2749 SCHMIT KEN | R |
| 450 -DITCH CLEAN | 09129115 S1103005 HIDDEN HIGHLAND 8380 WINTERS, DAVID | R |
| 450 - DTCH CLEAN | 09129/15 St103005 HIDDEN HIGHLAND8384 RODRIGUEZ MARQUEZ, J | R |
| 450-DITCH CLEAN | 09R2915 S 1103005 HIDDEN HIGHLAND 5202 TRUCK, DUMP 12+YD | 0 |
| 450-DITCH CLEAN | 0972915 S1103005 HIDDEN HIGHLAND 7873 BACKHOE | 0 |
| 450-DITCH CLEAN | $09 / 30115$ S1103005 HIDDEN HIGHLAND 5359 THOMSEN STEVEN | R |
| 450-DITCH CLEAN | 09/30/15 S1103005 HIDDEN HIGHLAND 5376 PARKHURST JAMIE | R |
| 450-DITCH CLEAN | $09 / 30115$ S1103005 HIDDEN HIGHLAND 1660 ROLDAN AL | R |
| 450-DITCH CLEAN | 09130115 S1103005 HIDDEN HIGHLAND 8279 CHRISTIANSEN, ERIC | R |
| 450-DITCH CLEAN | O9R30/15 S1103005 HIDDEN HIGHLAND 27132014 RAM CREW CAB | 0 |
| 450-DITCH CLEAN | 09130/15 S1103005 HIDDEN HIGHLAND 5207 TRUCK, DUMP 12+YD | 0 |
| 450-DITCH CLEAN | 09/30/15 S1103005 HIDDEN HIGHLAND 5202 TRUCK, DUMP 12+YD | 0 |
| 450-DICHCLEAN | 09\%0/15 S1103005 HIDDEN HIGHLAND 7873 BACKHOE | 0 |
| 450-DITCH CLEAN | 09/30/15 S1103005 HIDDEN HIGHLAND DEBRIS DEBRIS | 0 |
| 450-ditch clean | 09/30115 \$1103005 HIDDEN HIGHLANDLF | 0 |
| 450-DITCH CLEAN | 1005/15 S6203009 STONEY BROOK DI 8279 CHRISTIANSEN, ERIC | R |
| 450-DITCH CLEAN | 1005515 S6203009 STONEY BROOK DI8897 GRAHAM, RICHARD | R |
| 450-DITCH CLEAN | 1005/15 S6203009 STONEY BROOK DI 8284 CHRISTIANSEN, AARON | R |
| 450 - DITCH CLEAN | 1005/15 S6203009 STONEY BROOK DI 27132014 RAM CREW CAB | 0 |
| 450-DITCH CLEAN | 1005/15 S6203009 STONEY BROOK DI7B73 BACKHOE | 0 |
| 450 - DITCH CLEAN | 1005/15 S6203009 STONEY EROOK DI5207 TRUCK, DUMP 12+YD | 0 |
| 450-DITCH CLEAN | 1005515 S6203009 STONEY BROOKD15526 TRUCK, DUMP 10YD | 0 |
| 450- DITCH CLEAN | 1010515 S6203009 STONEY BRCOK DI6629 50 TON TILT TRAILER | 0 |

## WORA REPORT DETAIL

\section*{| From (19101/1s to 0.6/30/16 Activity $=450$ |
| :--- |
| ACTIVITY |}




## WOKn REPORT DETAIL

From 0\%/0I/15 so 06/30/16 Activily $=450$



## WOḱ REPORT DETAIL

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ACTIVITY DATE LOCATION Resources Pay Type Lab/Hr Equip/Hr Mat Contr Misc WkQty W/O\# ACCT\#
0000121S - RENO - SOUTH
450-DITCH CLEAN
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WORA REPORT DETAIL From 09א1)1/15 10 06/30/16 Activity $=450$

## WOKn REPORT DETAIL

 From 0y/01/15 to 06/30/16 Activiny $=450$ACTIVITY DATE LOCATION
0000121 S - RENO - SOUTH
450-DITCH CLEAN 450-dITCH CLEAN 450 - Ditch Clean 450- DITCH CLEAN 450 - Ditch Clean 450-DTCH CLEAN 450 - DTCCH CLEAN 450-DITCHCLEAN 450 - ditchclean 450-DTTCH CLEAN 450-DITCH CLEAN 450-DITCHCLEAN 450-DITCH CLEAN 450 -DITCH CLEAN 450-DITCH CLEAN 450 - ditch Clean 450 - Ditch Clean 450 - DITCH CLEAN 450 - Ditch Clean 450 -dTCH CLEAN 450 -dtch Clean 450 - DITCH CLEAN 450 -DITCH CLEAN 450 -DITCH CLEAN 450 -DITCH CLEAN 450-DITCH CLEAN 450 -DITCH CLEAN 450 - DTCCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450-ditch Clean 450 -DITCH CLEAN 450 - DTtCh CLEAN 450 -DITCH CLEAN


## WORn REPORT DETAIL

 From 09/0IfIS to $06 / 30 / 16$ Activity $=450$

## WORK REPORT DETAIL

From $0991 / 1 / 15$ to $06 / 30 / 16$ Acfivity $=450$

| ACTIVITY | DATE | LOCATION | Resources | Pay | Hr | Equip/tr | Mat | Contr | Misc | WkQty | W/O\# | ACCT\# |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0000131 - Incline Roads |  |  |  |  |  |  |  |  |  |  | DR - D | INAGE |
| 450 - DITCH CLEAN | 09102/15 | IT1109007 EAGLE DR | 6 DEBRIS DEBRIS | 0 |  |  | 12.0 |  |  |  |  |  |
| $450-$ DTTCH CLEAN | 0910215 | IT1109007 EAGLE DR | 6 LF | 0 |  |  |  |  |  | 300.0 |  |  |
| 450 - DITCH CLEAN | 09/03/15 | IT1105010 DRIVER W | 8900 HUF, RONY | R | 4:00 |  |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 0903/15 | IT11080to DRIVER W | RENTAL EXCAVATOR RENT | talio |  | 4:00 |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 09103/15 | TT1108010 DRIVER W | 5215 TRUCK, DUMP 12+YD | 0 |  | 4:00 |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 09103/15 | IT1108010 DRIVER W | 2360 TRUCK, PICKUP | 0 |  | 4:00 |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 099103/15 | IT1108010 DRIVER W | DEBRIS DEBRIS | 0 |  |  | 12.0 |  |  |  |  |  |
| 450 - DITCH CLEAN | 09103/15 | T1108010 DRIVER W |  | 0 |  |  |  |  |  | 800.0 |  |  |
| 450 - DITCH CLEAN | 09103115 | IT1108010 DRIVER W | 2833 MC CASSIE NICK | R | 4:00 |  |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 09103/15 | IT1108010 DRIVER | 8293 BURKE، CODY | R | 4:00 |  |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 09/03/15 | IT1109002 FAIRVIEW | 2.2833 MC CASSIE NICK | R | 2:00 |  |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 09/03/15 | IT1109002 FAIRVIEW | 2.8293 BURKE, CODY | R | 2:00 |  |  |  |  |  |  |  |
| 450 - DItCH CLEAN | 09103115 | IT1109002 FAIRVIEY | 2.8900 HUF, RONY | R | 2:00 |  |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 0910315 | IT1109002 FAIRVIEW | 2.RENTAL EXCAVATOR RENT | TALI 0 |  | 2:00 |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 09\%3315 | IT1109002 FAIRVIE | 2.5215 TRUCK, DUMP 12+YD | 0 |  | 2:00 |  |  |  |  |  |  |
| 450 -DITCH CLEAN | 0903/15 | T1109002 FAIRVIE | 2.2360 TRUCK, PICKUP | 0 |  | 2:00 |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 09103/15 | IT1109002 FAIRVIEW | 2. DEBRIS DEARIS | 0 |  |  | 4.0 |  |  |  |  |  |
| 450 - DITCH CLEAN | 09/03/15 | IT1109002 FAIRVIE | 2.LF | 0 |  |  |  |  |  | 200.0 |  |  |
| 450 - DITCH CLEAN | 09/0315 | T19109007 EAGLE D | 62833 MC CASSIE NICK | $R$ | 4:00 |  |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 09/03/15 | IT1109007 EAGLE | 68293 BURKE, CODY | $R$ | 4:00 |  |  |  |  |  |  |  |
| 450-DITCH CLEAN | 0903/15 | IT1109007EAGLE D | 68900 HUF, RONY | $R$ | 4:00 |  |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 09/03/15 | IT1103007 EAGLE D | 6 RENTAL EXCAVATOR RENT | TALI 0 |  | 4:00 |  |  |  |  |  |  |
| 450 -DITCH CLEAN | 09\%3/15 | IT1109007 EAGLE D | 65215 TRUCK, DUMP 12+YD | 0 |  | 4:00 |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 09/03/15 | IT1109007 EAGLE DR | 62360 TRUCK, PICKUP | 0 |  | 4:00 |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 09/03/15 | IT1109007 EAGLE DR | 6 DEBRIS DEBRIS | 0 |  |  | 12.0 |  |  |  |  |  |
| 450 - DITCH CLEAN | 09\%03/15 | IT1109007 EAGLE DR | 6 LF | 0 |  |  |  |  |  | 500.0 |  |  |
| $450-$ DITCH CLEAN | 090815 | IT1107024 CRISTINA | F 5215 TRUCK, DUMP 12+YD | 0 |  | 5:00 |  |  |  |  |  |  |
| 450 -DTCH CLEAN | 09/08/15 | IT1107024 CRISTINA | F 2360 TRUCK, PICKUP | 0 |  | 5:00 |  |  |  |  |  |  |
| 450 -DITCH CLEAN | 09/08/45 | п1107024 CRISTINA | F RENTAL EXCAVATOR RENT | TALI 0 |  | 5:00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 09108115 | IT1107024 CRISTINA | F DEBris debris | 0 |  |  | 12.0 |  |  |  |  |  |
| $450-$ DTCCH CLEAN | 09138/15 | 151107024 CRISTINA | FLF | 0 |  |  |  |  |  | 400.0 |  |  |
| $450-$ DITCH CLEAN | 0910014 | IT1107024 CRISTINA | F2833 MC CASSIE NICK | R | 5:00 |  |  |  |  |  |  |  |
| 450-DITCH CLEAN | 09/08115 | IT1107024 CRISTINA | F 8293 BURKE, CODY | R | 5:00 |  |  |  |  |  |  |  |
| 450 - DITCH CLEAN | 0908115 | IT1107024 CRISTINA | F 8898 LONG, BRUCE | R | 5:00 |  |  |  |  |  |  |  |

## WORa REPORT DETAIL

From 09月01/15 to 06/30//6 Activity $=450$
ACTIVITY


## WORK REPORT DETAIL

 From 09\%11/1/5 so 06/30/16 Activily $=450$

## WORn REPORT DETALL

 From 09/01/Is to 06/30/76 Activity $=450$ACTIVITY DATE LOCATION Resources Pay Type Lab/Hr Equip/Hr Mat Contr Misc WkQty W/O\# ACCT\#



## WOṘк REPORT DETAIL

From $119 / 11 / 1 / 5$ to 06/30/16 Activity $=450$
ACTIVITY DATE LOCATION Resources Pay Type Lab/Br Equip/Ar Mat Contr Misc WkQty W/O\# ACCT\#



## From $09 / 01 / 15$ to 06／30／16 Activity $=450$

| WORA REP | $R T$ | DETAIL |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From 09\％01／15 to 06／30／16， | $i t y=450$ |  |  |  |  |  |  |  |  |  |  |
| ACTIVITY | DATE | LOCATION Resources | Pay | ／HI | Equip／Hr | Mat | Contr | Misc | WkQty | W／O\＃ | ACCT\＃ |
| 0000131 －Incline Roads |  |  |  |  |  |  |  |  |  | DR－ | INAGE |
| 450－DITCH CLEAN | 10107／15 | IT1109002 FAIRVIEW BLVD 2.5215 TRUCK，DUMP 12＋YD | 0 |  | 5：00 |  |  |  |  |  |  |
| 450－DITCH CLEAN | 10107／15 | T1109002 FAIRVIEW BLVD 2.3056 TRUCK，SWAP BED | 0 |  | 5：00 |  |  |  |  |  |  |
| 450－DITCH CLEAN | 10107／15 | T1109002 FAIRVIEW BLVD 2.6626 TRANSPORT | 0 |  | 5：00 |  |  |  |  |  |  |
| 450－DITCH CLEAN | 10107／15 | IT1109002 FAIRVIEW BLVD 2．RENTAL EXCAVATOR RENT | TALIO |  | 5：00 |  |  |  |  |  |  |
| 450 －DITCH CLEAN | 10007／15 | IT1109002 FAIRVIEW BLVD 2．DEBRIS DEBRIS | 0 |  |  | 12.0 |  |  |  |  |  |
| 450－DITCH CLEAN | 10，07／15 | IT1109002 FAIRVIEW BLVD 2.15 | 0 |  |  |  |  |  | 1000.0 |  |  |
| 450－DITCH CLEAN | 1007／15 | IT 1110019 SOUTHWOOD BLV 2833 MC CASSIE NICK | R | 5：00 |  |  |  |  |  |  |  |
| 450－DITCH CLEAN | 10107／15 | IT1110019 SOUTHWOOD BLV 2116 ROBINSON TROY | R | 4：30 |  |  |  |  |  |  |  |
| 450－DITCH CLEAN | 10107／15 | 171110019 SOUTHWOOD BLV 8898 LONG，日RUCE | R | 5：00 |  |  |  |  |  |  |  |
| 450－DITCH CLEAN | 10007／15 | I1110019 SOUTHWOOD BLV 8900 HUF，RONY | R | 5：00 |  |  |  |  |  |  |  |
| 450－DITCH CLEAN | 10，07195 | IT1110019 SOUTHWOOD BLV 5215 TRUCK，DUMP 12＋YD | 0 |  | 5：00 |  |  |  |  |  |  |
| 450－DITCH CLEAN | 1007115 | IT1110019 SOUJHWOOD ELV 3056 TRUCK，SWAP BED | 0 |  | 5：00 |  |  |  |  |  |  |
| 450－DITCH CLEAN | 1007／15 | 1 T 1110019 SOUTHWOOD ELV 6626 TRANSPORT | 0 |  | 5：00 |  |  |  |  |  |  |
| 450－DITCH CLEAN | 10，07／15 | IT1110019 SOUTHWOOD 日LV RENTAL EXCAVATOR RENT | TALI 10 |  | 5：00 |  |  |  |  |  |  |
| 450－DITCH CLEAN | 10，07／15 | IT1110019 SOUTHWOOD BLV DEBRIS DEBRIS | 0 |  |  | 24.0 |  |  |  |  |  |
| 450 －DITCH CLEAN | 1007／175 | IT1110019 SOUTHWOOD ELV LF | 0 |  |  |  |  |  | 600.0 |  |  |
| 450－DITCH CLEAN | 10108／15 | IT1101008 JACKPINE LANE ． 212833 MC CASSIE NICK | R | 2：00 |  |  |  |  |  |  |  |
| 450－DITCH CLEAN | 10／08／15 | IT1101008 JACKPINE LANE ． 212118 ROBINSON TROY | R | 2：00 |  |  |  |  |  |  |  |
| 450 －DITCH CLEAN | 1008／15 | IT1901008 JACKPINE LANE ． 218900 HUF，RONY | R | 2：00 |  |  |  |  |  |  |  |
| 450－DITCH CLEAN | 10／08／15 | IT1101008 JACKPINE LANE ． 212360 TRUCK，PICKUP | 0 |  | 2：00 |  |  | － |  |  |  |
| 450－DITCH CLEAN | 10108／15 | IT1101008 JACKPINE LANE ． 215215 TRUCK，DUMP 12＋YD | 0 |  | 2：00 |  |  |  |  |  |  |
| 450 －DITCH CLEAN | 10／08／15 | IT1101008 JACKPINE LANE ．21RENTAL EXCAVATOR RENT | ALI 10 |  | 2：00 |  |  |  |  |  |  |
| 450－DITCH CLEAN | 10／08／15 | IT1101008 JACKPINE LANE ． 21 DEBRIS DEERIS | 0 |  |  | 12.0 |  |  |  |  |  |
| 450－DITCH CLEAN | 10108115 | IT1101008 JACKPINE LANE ． 21 LF | 0 |  |  |  |  |  | 800.0 |  |  |
| 450－DITCH CLEAN | 10108115 | IT1101010 SUGARPINE DR ．75DEBRIS DEBRIS | 0 |  |  | 48.0 |  |  |  |  |  |
| 450－DITCH CLEAN | 10108／15 | IT1101010 SUGARPINE DR ．7SLF | 0 |  |  |  |  |  | 500.0 |  |  |
| 450－DITCH CLEAN | 10108／15 | IT1101010 SUGARPINE DR ． 752833 MC CASSIE NICK | R | 2：00 |  |  |  |  |  |  |  |
| 450 －DITCH CLEAN | 10108115 | IT1101010 SUGARPINE DR ． 752118 ROBINSON TROY | R | 2：00 |  |  |  |  |  |  |  |
| 450 －DITCH CLEAN | 10\％08／15 | IT1101010 SUGARPINE DR ． 7 \＄8900 HUF，RONY | $R$ | 2：00 |  |  |  |  |  |  |  |
| 450 －DITCH CLEAN | 10108／15 | IT1101010 SUGARPINE DR ． $7 \leqslant 2360$ TRUCK，PICKUP | 0 |  | 2：00 |  |  |  |  |  |  |
| 450－DITCH CLEAN | 10108／15 | IT1101010 SUGARPINE DR ． 755215 TRUCK，DUMP 12＋YD | 0 |  | 2：00 |  |  |  |  |  |  |
| 450 －DITCH CLEAN | 10／08／15 | IT1101010 SUGARPINE DR ．7SRENTAL EXCAVATOR RENT | ALIO |  | 2：00 |  |  |  |  |  |  |
| 450 －DITCH CLEAN | 10108／15 | IT1110019 SOUTHWOOD 日LV 2833 MC CASSIE NICK | R | 6：00 |  |  |  |  |  |  |  |
| 450 －DITCH CLEAN | 10108／15 | IT1110019 SOUTHWOOD BLV 2118 ROBINSON TROY | R | 6：00 |  |  |  |  |  |  |  |

ACTIVITY DATE LOCATION Resources Pay Type Lab/Hr Equip/Hr Mat Contr Misc WkQty W/O\# ACCT\#

| 0000131 - Incline Roads |  |  |  |  |  |  |  |  | DR - DRAINAGE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 450-DITCH CLEAN | 10\%8/15 IT1110019 SOUTHWOOD BLV 8900 HUF, RONY | R | 6:00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10008/15 TT1110019 SOUTHWOOD BLV 2360 TRUCK, PICKUP | 0 |  | 6:00 |  |  |  |  |  |
| 450 - DITCH CLEAN | 10/08115 T1110019 SOUTHWOOD BLV 5215 TRUCK, DUMP 12+YD | 0 |  | 6:00 |  |  |  |  |  |
| 450-DITCH CLEAN | 10/0815 IT1110019 SOUTHWOOD BLV RENTAL EXCAVATOR RENTALI |  |  | 6:00 |  |  |  |  |  |
| 450 - ditch Clean | 10108115 T1110019 SOUTHWOOD BLV DEBRIS DEBRIS | 0 |  |  | 48.0 |  |  |  |  |
| 450-DITCH CLEAN | 10/08/15 T1110019 SOUTHWOOD BLV LF | 0 |  |  |  |  |  | 600.0 |  |
| 450-DITCH CLEAN | 1012315 IT1101010 SUGARPINE DR .7? 2833 MC CASSIE NICK | R | 10:00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10/1215 T1101010 SUGARPINE DR. 7 ? 3216 COOPER JEFF | R | 5:00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 10121215 $\Pi 1101010$ SUGARPINE DR. 788898 LONG, BRUCE | R | 10:00 |  |  |  |  |  |  |
| 450- DITCH CLEAN | 1011215 T1101010 SUGARPINE DR . 7 S 5215 TRUCK, OUMP 12+Yס | 0 |  | 10:00 |  |  |  |  |  |
| 450-DITCHCLEAN | 10/1215 T1101010 SUGARPINE DR.7¢ 2360 TRUCK, PICKUP | 0 |  | 5:00 |  |  |  |  |  |
| 450-DITCH CLEAN | 1011215 T1101010 SUGARPINE DR. 3 R RENTAL EXCAVATOR RENTALI |  |  | 10:00 |  |  |  |  |  |
| 450 - OTCH CLEAN | 10/1215 T1101010 SUGARPINE DR . 7 ¢ DEBRIS DEBRIS | 0 |  |  | 60.0 |  |  |  |  |
| 450-DITCH CLEAN | 1011215 111101010 SUGARPINE DR . 7 SLF | 0 |  |  |  |  |  | 2000.0 |  |
| 450-DITCH CLEAN | 1105/15 S3201028 EUNICE WAY . 17 U 3666 HARDY OAVID | R | 2:30 |  |  |  |  |  |  |
| 450- DITCH CLEAN | 11055/15 S3201028 EUNICE WAY. 17 U 3166 HINES MICHAEL | R | 2:30 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 1105/15 S3201028 EUNICE WAY . 17 U 2050 KNOWLES MICHAEL | R | 2:30 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 1105/15 S3201028EUNICE WAY 17 U 3216 COOPER JEFF | R | 2:30 |  |  |  |  |  |  |
| 450- DTTCH CLEAN | 1105515 S3201028 EUNICE WAY. 17 U 2521 TRUCK, PICKUP | 0 |  | 2:30 |  |  |  |  |  |
| 450-OTTCHCLEAN | 1105/15 S3201028 EUNICE WAY . 17 U7852 BACKHOE | 0 |  | 2:30 |  |  |  |  |  |
| 450- DITCH CLEAN | 1105/15 S3201028 EUNICE WAY. 17 U 5206 TRUCK, DUMP 12+YD | 0 |  | 2:30 |  |  |  |  |  |
| 450-DITCH CLEAN | 1105/15 S3201028 EUNICE WAY. 17 U5210 TRUCK, DUMP 12+YD | 0 |  | 2:30 |  |  |  |  |  |
| 450 - DITCH CLEAN | 1105/15 S3201028 EUNICE WAY. 17 UDEBRIS DEBRIS | 0 |  |  | 30.0 |  |  |  |  |
| 450- ditch clean | 1105/15 S3201028 EUNICE WAY. 17 ULF | 0 |  |  |  |  |  | 379.0 |  |
| 450-DITCHCLEAN | 1105/15 S3201028 EUNICE WAY. 17 ULF | 0 |  |  |  |  |  | 234.0 |  |
| 450-DITCH CLEAN | 04/25/16 S3302002 RAWHIDE DRIVE.0LF | 0 |  |  |  |  |  | 30.0 |  |
| 450-DITCHCLEAN | 04/25/16 S3302002RAWHIDE DRIVE 02833 MC CASSIE NICK | R | 3:00 |  |  |  |  |  |  |
| 450-DITCH CLEAN | 04/25/16 S3302002 RAWHIDE DRIVE 03216 COOPER JEFF | R | 3:00 |  |  |  |  |  |  |
| $450-$ DTTCH CLEAN | 04/25/16 S3302002RAWHIDE DRVE 05561 TRUCK, VAC | 0 |  | 3:00 |  |  |  |  |  |
| 450-DITCH CLEAN | 04/25/46 S3302002 RAWHIDE DRNE 0 DEBRIS DEARIS | 0 |  |  | 2.0 |  |  |  |  |
| 450-DITCH CLEAN | 04/25/16 S3302002 RAWHIDE DRIVE . 0 WATER WATER | 0 |  |  | 1000.0 |  |  |  |  |
|  |  |  | 466:00 | 486:30 | 1849.0 | 0.0 | 0.0 | 27919.0 LF |  |
| 0000141 - Gerlacb Roads |  |  |  |  |  |  |  |  | DR - DRAINAGE |
| 450 - DTCH CLEAN | 0901/15 STGO020 DUCK LAKE RD (CR 1629 日ICONDOA MIKE | R | 10:00 |  |  |  |  |  |  |
| Thesday - Sep 27,2016 |  |  |  |  |  |  |  |  | Page 54 of 60 |

## WOR＾REPORT DETALL

 From a9／ol／is to 06／30／t6 Activity $=450$ACTIVITY DATE LOCATION Resources Pay Type Lab／Hr Equip／Hr Mat Contr Misc WkQty W／O\＃ACCT\＃
0000141 －Gerlach Roads

## 450－DITCH CLEAN O9N1115 STG0020 OUCK LAKE RD ICR 2468 TRUCK，PICKUP

$\begin{array}{ll}\text { O9101／15 STG0020 OUCK LAKE RD（CR } 2468 \text { TRUCK，PICKUP } & 0 \\ 091 / 1 / 15 \text { STG0020 DUCK LAKE RD（CR 7790 BULLDOZER } & 0 \\ 0901 / 15 \text { STG0020 DUCK LAKE RD（CR LF } & 0\end{array}$
$\begin{array}{ll}09111115 \text { UNKNOWN } & 1265 \text { FERGUSON DARRELL } \\ 09101 / 15 \text { UNKNOWN } & 7812 \text { JD } 77 O P \text { GRADER }\end{array}$ 090101／75 UNKNOWN
0910315 STVOO05 STATE ROUTE 34 S （ 1265 FERGUSON DARRELL． 09103115 STV0005 STATE ROUTE 34 S （ 7812 JD 770 GRADER ， C9／03315 STVOOOS STATE ROUTE 34 S 〈LF O9R8145 STVOOO5 STATE ROUTE 34 S （ 1265 FERGUSON DARRELL 09\％08115 STVOO05 STATE ROUTE 34S（ 7812 JD 770P GRADER OGMO815 STVOOOS STATE ROUTE $34 S$（LF
09109／15 STVO005 STATE ROUTE 34 （ 1265 FERGUSON DARRELL 09009／15 STVODO5 STATE ROUTE 345 （ 7812 JD 77OP GRADER 09009115 STVODO5 STATE ROUTE 3 3 （LF
09810115 STGO029 STATE ROUTE 33 （C3585 WATT JAMES 09／10115 STG0029 STATE ROUTE 33 （C7855 LOADER
09／10145 STGO029 STATE ROUTE 33 〔CLF
0910115 STVOOOS STATE ROUTE $34 S$（ 1265 FERGUSON DARRELL 09／10／15 STVOOD5 STATE ROUTE 345 （ 7812 JD 770P GRADER O911015 STVO005 STATE ROUTE $34 S$（LF
09115／15 STGO031 STATE ROUTE 34 〔L5254 MUNSON，BRANDON 09／15／15 STG0031 STATE ROUTE 34 （L 7805 LOADER
09／15／15 STG0031 STATE ROUTE 34 （LLF
OS24／15 STG0019 BUFFALO MEADOW 3578 GOOCH WILLARD 09／24／15 STG0019 BUFFALO MEADOW 27102014 RAM PICK UP 09／24／15 STG0019 BUFFALO MEADOW 7790 EULLDOZER 09／24／15 STG0019 BUFFALO MEADOWLF 09／299／15 STVV005 STATE ROUTE 34 S （ 3578 GOOCH WILLARD
09／29／45 STvO005 STATE ROUTE 34 S （ 7789 CAT 430 IT BACKHOE 10／33／15 STGOO15 STATE ROUTE 34 （CLF
10／13／15 STG0015 STATE ROUTE 34 （C 3585 WATT JAMES
$10113 / 15$ STG0015 STATE ROUTE 34 （C 7813 JD 770P GRADER
1013／15 STG0016 STATE ROUTE 447 （3585 WATT JAMES
DR－DRAINAGE



## WORK REPORT DETAIL

From 09/01/15 $1006 / 30 / 16$ Activily $=450$
ACTIVITY
DATE
0000141 - Gerlach Roads
450 - DITCH CLEAN 450-DITCH CLEAN 450 - DTCCH CLEAN 450- DTTCH CLEAN 450- DTICH CLEAN 450. DITCHCLEAN 450 - OTCCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DTTCH CLEAN 450- DITCH CLEAN 450- DITCH CLEAN 450- DTCH CLEAN 450 - DITCH CLEAN 450-DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450-DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - Ditch Clean 450 - DICH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DITCH CLEAN 450 - DTCHC CLEAN

WORn REPORT DETAIL From 09／01／15 to 06／30／16 Aclivily $=450$教

## ACTIVITY

450 －DTTCHCLEAN 0407／16 STG0016 STATE ROUTE 447 （2468 TRUCK PICKUP 0407／16 STG0016 STATE ROUTE 447 （ 2468 TRUCK，PICKUP 04／07／16 STG0016 STATE ROUTE 447 （LF
05／04／16 STG0020 DUCK LAKE RD（CR 3585 WATT JAMES 0504／16 STG0020 DUCKLAKE RD（CR 2468 TRUCK，PICKUP 05104／16 STG0020 DUCKLAKE RD \｛CR 7813 JD 770P GRADER 05104／16 STGOO20 DUCK LAKERD 〈CRLF
06／09／16 STVOOO5 STATE ROUTE 34 S （ 3585 WATT JAMES 06，09／16 STVO005 STATE ROUTE 34 S \｛7813 JD 770 P GRADER 06／09／16 STVOCO5 STATE ROUTE 34 S \｛LF
06／21／16 STV0006 STATE ROUTE 8A（C2468 TRUCK，PIGKUP 06／211／16 STV0006 STATE ROUTE 8A（C 7811 JD 770P GRADER 06／21／16 STVOOO6 STATE ROUTE BA（CLF
06／21／16 STVOOO6 STATE ROUTE 8A（C 3585 WATT JAMES 06／22／16 STVOOL6 STATE ROUTE BA（C3585 WATT JAMES $06 / 2216$ STVO006 STATE ROUTE 8 A（C2468 TRUCK，PICKUP 06／22116 STVO006 STATE ROUTE 8A（C 7811 JD 770P GRADER 0612216 STVOOO6 STATE ROUTE $8 A$（CLF
06／23／16 STVO006 STATE ROUTE 8 A（C3585 WATT JAMES 06／23／16 STVOO06 STATE ROUTE 8 A（C2468 TRUCK，PICKUP 06／23／16 STVO006 STATE ROUTE 8A（C 7819 JD T7OP GRADER 06／23／16 STVOOOG STATE ROUTE 8A（CLF
06／29／16 STV0006 STATE ROUTE 8 A 〔C3585 WATT JAMES 06129116 STV0006 STATE ROUTE 8 \＆（C2468 TRUCK，PICKUP 06／2S116 STVO006 STATE ROUTE 8A（C 7811 JD T7OP GRADER 06／29116 STV0006 STATE ROUTE 8A（CLF
0000141 －Gerlach Roads
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## WOKn REPORT DETAIL

From $09 / 01 / 15$ to $06 / 30 / 16$ Activity $=456$

ACTIVITY DATE LOCATION Resources Pay Type Lab/Hr Equip/Hr Mat Contr Misc WkQty W/O\# ACCT\#

| 0000131 - Incline Roads |  |  |  |  |  |  |  | AS - ASPHALT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 456-AC BERMINSTALL | 10/20/95 1711 INCLINE | 3032 TRUCK, PICKUP | 0 |  | 4:00 |  |  | IT11-4 |
| 456-AC BERM INSTALL | 10/20/15 IT11 INCLINE | DEBRIS DEBRIS | 0 |  |  | 5.0 |  | IT11.4 |
| 456-AC BERM INSTALL | 10/2016 IT11 INCLINE | LF | 0 |  |  |  | 1.0 | T11-4 |
| 456-AC BERM INSTALL | 10/20115 T11 INCLINE | 3102 PITTS CURTIS | R | 3:00 |  |  |  | 1711.3 |
| 456-AC BERM INSTALL | 10/20/15 TT11 INCLINE | 3666 HARDY DAVID | R | 3:00 |  |  |  | TT11-3 |
| 456-AC BERM INSTALL | 10/20115 IT11 INCLINE | B900 HUF, RONY | R | 3:00 |  |  |  | \|T11-3 |
| 456-AC BERM INSTALL | 10/2015 IT11 INCLINE | 7864 BACKHOE | 0 |  | 3:00 |  |  | 1711-3 |
| 456-AC BERM INSTALL | 1012015 T11 INCLINE | 5215 TRUCK, DUMP 12+YD | 0 |  | 3:00 |  |  | 17113 |
| 456-AC 8ERM INSTALL | 10/20/15 TT11 INCLINE | 3032 TRUCK, PICKUP | 0 |  | 3:00 |  |  | 1711-3 |
| 456-AC BERM INSTALL | 1012015 T11 INCLINE | DEBRIS DEaris | 0 |  |  | 5.0 |  | 1T11-3 |
| 456 - AC BERM INSTALL | 10/20115 T11 INCLINE | LF | 0 |  |  |  | . 1.0 | T11-3 |
| 456 -AC BERM INSTALL | 10/2015 IT11 INCLINE | 3102 PITTS CURTIS | R | 1:30 |  |  |  | T11-2 |
| 456-AC BERM INSTALL | 10/20145 T11 INCLINE | 3666 HARDY DAVID | R | 1:30 |  |  |  | T11-2 |
| 456-AC8ERMINSTALL | 10/20115 IT13 INCLINE | 8900 HUF, RONY | R | 1:30 |  |  |  | 1T11-2 |
| 456-ACBERM INSTALL | 10/20/15 T11 INCLINE | 7864 BACKHOE | 0 |  | 1:30 |  |  | T11-2 |
| 456-AC BERM INSTALL | 10/20/15 TT11 INCLINE | 5215 TRUCK, DUMP 12+YD | 0 |  | 1:30 |  |  | T11-2 |
| 456-AC BERM INSTALL | 10/20/15 IT11 INCLINE | 3032 TRUCK, PICKUP | 0 |  | 1:30 |  |  | T11-2 |
| 456 - AC BERM INSTALL | 1020015 T T11 INCLINE | Debris debris | 0 |  |  | 5.0 |  | IT11-2 |
| 456 - AC BERMINSTALL | 10220/15 ITT1 INCLINE | LF | 0 |  |  |  | 1.0 | T11-2 |
| 456 - AC BERM INSTALI | 1020/15 IT11 INCLINE | 3102 PITTS CURTIS | R | 1:30 |  |  |  | T11-1 |
| 456-AC BERM INSTALL | 10/20115 IT11 INCLINE | 3666 HARDY DAVID | R | 1:30 |  |  |  | T11-1 |
| 456-AC BERM INSTALL | 10/2015 IT11 INCLINE | 8900 HUF, RONY | R | 1:30 |  |  |  | TT11-1 |
| 456 - AC BERM INSTALL | 10/20/15 Ti1 INCLINE | 7864 8АСКНОE | 0 |  | 1:30 |  |  | T11-1 |
| 456-AC BERM INSTALL | 1020/15 IT11 INCLINE | 5215 TRUCK, DUMP 12+YD | 0 |  | 1:30 |  |  | T11-1 |
| 456-AC BERM INSTALL | 1020/15 IT11 INCLINE | 3032 TRUCK, PICKUP | 0 |  | 1:30 |  |  | 1791-1 |
| 456-AC BERM INSTALL | 10/20/15 IT19 INCLINE | debris debris | 0 |  |  | 5.0 |  | \|T11-1 |
| 456-AC BERM INSTALL | 10/20/15 IT11 INCLINE | LF | 0 |  |  |  | 1.0 | [T11-9 |
| 456-AC BERM INSTALL | 10/21115 IT11 INCLINE | 3102 PITTS CURTIS | $R$ | 6:00 |  |  |  | 1519-1 |
| 456-AC BERM INSTALL | 10/21/15 T11 INCLINE | 2118 ROBINSON TROY | R | 6:00 |  |  |  | TT11-1 |
| 456 - AC BERM INSTAL | 1021/15 IT19 INCLINE | 8284 CHRISTIANSEN, AARON | R | 6:00 |  |  |  | \|T19-1 |
| 456 - AG BERM INSTALL | 10121/15 IT11 INCLINE | 8896 ESCOVEDD, ELLIOTT | $R$ | 6:00 |  |  |  | 1811-1 |
| 456-AC BERM INSTALL | 10/21115 IT11 INCLINE | 7864 BACKHOE | 0 |  | 6:00 |  |  | T1\%-1 |
| 456 - AG BERM INSTALL | 10/21/15 IT11 INCLINE | 5215 TRUCK, DUMP 12+YD | 0 |  | 6:00 |  |  | 1711 -1 |
| 456 - AG BERM INSTALL | 10121/15 IT11 INCLINE | 2360 TRUCK, PICKUP | 0 |  | 6:00 |  |  | T11-1 |

ACTIVITY DATE LOCATION Resources Pay Type Lab/Hr Equip/Hir Mat Contr Misc WkQty W/O\# ACCT\#


## WORA REPORT DETAIL


ACTIVITY DATE LOCATION Resources Pay Type Lab/Er Equip/Hr Mat Contr Misc WkQty W/O\# ACCT\#
0000121 S - RENO - SOUTH
$\begin{array}{lll}\text { 03/10/16 m/71 GALENA FOREST/CALL } 8293 \text { BURKE, CODY } & R \\ \text { 03/1016 m/1 GALENA FOREST/CALL\& } 2571 \text { MC NEFF DANIEL } & R\end{array}$ $03 / 10116 \mathrm{~m} / 1$ GALENA FOREST/CALL 3216 COOPER JEFF 0311016 mf/ GALENA FORESTCALL 3619 WLLLAMS BRAD 03/1016 MF1 GALENA FORESTICALL 7852 BACKHOE
$031016 \mathrm{~m} / 1$ GALENA FORESTCALL 5211 TRUCK, DUMP $12+$ YD O310116 mT1 GALENA FORESTICALL-5203 TRUCK, DUMP $12+Y D$ 031016 mR1 GALENA FORESTICALL 2522 TRUCK, PICKUP 03/10/16 MF1 GALENA FORESTCALL-DEGRIS DEBRIS 03110/16 mT1 GALENA FORESTICALLLIF

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457 -AC BERM REPAIR 457-AC BERM REPAIR 457-AC berm repalr 457-AC BERM REPAIR 457-AC BERM REPAIR 457-AC BERM REPAIR 457-AC BERM REPAIR 457-AC BeRM REPAR 457-AC BERM REPAIR 457-AC BERM REPAIR 457-AC EERM REPAIR 457-AC 日ERM REPAIR 457-AC aERM REPAIR 457-AC BERM REPAIR 457-AC berm Repalk 457 -AC berm repalr 457 -AC BeRM REPAIR 457-AC bermrepair 457-AC BERMREPAIR 457-AC BERM REPAIR 457-AC berm Repalr 457-AC BERM REPAIR 457-AC BERM REPAIR
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WORA REPORT DETAIL
From 0Y/OI/JS to 06/30/16 Activity $=457$
0000121 S - RENO - SOUTH
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From 09\%1/15 to 06/30/16 Activity $=457$
$000121 S$ - RENO - SOUTH

| 457 - AC BERM REPAIR | 06,08/16 MF7104004 YELLOW PINE CIF 9276 RUIZ-CERVANTES, JOSE |  |
| :---: | :---: | :---: |
| 457 - AC BERM REPAIR | 0660816 MF7104004 YELLOW PINE CIF 3666 HARDY DAVID | R |
| 457 -AC BERM REPAIR | 06108116 MF7104004 YELLOW PINE CIF 2087 HOUK RALPH | R |
| 457-AC BERM REPAIR | 06,08/16 MF7104004 YELLOW PINE CIF 9340 MORROW, JOSHUA | $R$ |
| 457 -AC BERM REPAIR | 06/08/16 MF7104004 YELLOW PINE CIF 6972 DAVIDSON, BRIAN | R |
| 457 - AC BERM REPAIR | 06081616 MF7104004 YELLOW PINE CFF 3166 HINES MICHAEL | R |
| 457 - AC BERM REPAIR | 06/08/16 MF7104004 YELLOW PINE CIF 7852 BACKHOE | 0 |
| 457-AC BERM REPAIR | 06108/16 MF7104004 YELLOW PNE CIF 7724 ROLLER | 0 |
| 457 - AC BERM REPAIR | 06.08/16 MF7 104004 YELLOW PINE CIF 6613 TRAILER, DOUBLE+AXLE | 0 |
| 457 -ACBERM REPAIR | 06/08/16 MF7104004 YELLOW PINE CIF 7709 OlL POT | 0 |
| 457-AC 8ERM REPAIR | 06108/16 MF7104004 YELLOW PINE CIF 5514 WATER TRUCK | 0 |
| 457-ACBERM REPAIR | 06/08/16 MF7104004 YELLOW PINE CIF 5211 TRUCK, DUMP 12+YD | 0 |
| 457-AC BERM REPAIR | 0610816 MF7104004 YELLOW PINE CIF 5206 TRUCK, DUMP 12+YD | 0 |
| 457 - AGBERM REPAIR | 05108/16 MF7104004 YELLOW PINE CIF 2521 TRUCK, PICKUP | 0 |
| 457 - AC BERM REPAIR | $06108 / 16$ MF7104004 YELLOW PINE CIF 2522 TRUCK, PICKUP | 0 |
| 457 -AC BERM REPAIR | 06/08/16 MF7104004 YELLOW PINE CIF SS1H SS1H | 0 |
| 457 - AC BERM REPAIR | 06108/16 MF7104004 YELLOW PINE CIF AC3/8G 3/8'AC20 NLLME | 0 |
| 457 - AC BERM REPAIR | 05108/16 MF7104004 YELLOW PINE CIF LF | 0 |
| 457-ACBERM REPAIR | 06108/16 MF7 104011 BLACK PINE DRIV 3619 WILLIAMS BRAD | R |
| 457 - AC BERM REPAIR | 06108116 MF7104011 BLACK PINE DRIV 2571 MC NEFF DANIEL | R |
| 457-AC BERM REPAIR | 06108/16 MF7104011 BLACK PINE DRIV 9276 RUIZ-CERVANTES, JOSE | R |
| 457-AC BERM REPAIR | 06/0816 MF7104011 BLACK PINE DRIV 3666 HARDY DAVID | R |
| 457-AC BERM REPAIR | 0608196 MF7104011 BLACK PINE DRIV 2087 HOUK RALPH | R |
| 457 - AC BERM REPAIR | 0608/16 MF7104011 BLACK PINE DRIV9340 MORROW, JOSHUA | R |
| 457 - AC BERM REPAIR | 06108116 MF7104011 BLACK PINE DRIV6972 DAVIDSCN, BRIAN | R |
| 457 - AC BERM REPAIR | $06108 / 16$ MF7104011 BLACK PINE DRIV3166 HINES MICHAEL | R |
| 457 - AC BERM REPAIR | 06K08/16 MF7104011 BLACK PINE DRIV7852 BACKHOE | 0 |
| 457-AC BERM REPAIR | 06/08/16 MF7104011 BLACK PINE DRIV 7724 ROLER | 0 |
| 457 - AC BERM REPAIR | 06108/16 MF7104011 BLACK PINE DRIV 6613 TRAILER, DOUBLE+AXLE | 0 |
| 457 - AC EERM REPAIR | 06008/16 MF7104011 BLACK PINE DRIV 7709 OIL POT | 0 |
| 457 - AC EERM REPAIR | 0668196 MF7104011 BLACK PINE DRIV 5514 WATER TRUCK | 0 |
| 457 - AC BERM REPAIR | 06108/16 MF7104011 日LACK PINE DRIV 5211 TRUCK, DUMP 12+YD | 0 |
| 457 - AC BERM REPAIR | 06108/16 MF7104011 BLACK PINE DRIV 5206 TRUCK, DUMP 12+YD | 0 |
| 457 - AC BERM REPAIR | 06108/16 MF7104011 BLACK PINE DRIV 2521 TRUCK, PICKUP | 0 |



## WORn REPORT DETAIL

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## ACTIVITY DATE LOCATION






WORn REPORT DETAIL

ACTIVITY DATE LOCATION

## WORK REPORT DETAIL




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DR - DRAINAGE



## WORn REPORT DETAIL


Pay Type Lab/Hr Equip/Hr Mat Contr Misc WkQty W/O\# ACCTH
DR - DRAINAGE


## WOKn REPORT DETAIL <br> From 09/0//1S to 06/30/16 Activity $=860$



## WORK REPORT DETAIL

From 09/01//15 to 06/30/16 Activity $=460$

## ACTIVIEY DATE LOCATION

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From 0910I/I5 to 06/30/16 Activity $=460$


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## WORn REPORT DETAIL




## WORn REPORT DETAIL

From 09/01/15 to 06/30/16 Activity $=460$
ACTIVITY DATE LOCATION





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## From 09/11/15 to 06/30/16 Activily $=460$

## AC'IVITY DATE LOCATION

W/O\# ACCT\#
DR - DRAINAGE



## WORn REPORT DETALL



ACTIVITY DATE LOCATION Resources Pay Type Lab/Hr Equip/Hr Mat Contr Misc WkQty W/O\# ACCT\#
DR - DRAJNAGE
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## WORK REPORT DETAIL

From 0צ/11/15s so 06/30/16 Activity $=460$


| WORA RRP | $R T$ | DETALC |  |  |  |  |  |  |  |  | $\cdots$ |
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| From 09\%I/I5 to 06/30/I6 | t $4=86$ |  |  |  |  |  |  |  |  |  |  |
| ACTIVITY | DATE | LOCATION Resources | Pay | /Hr | Equip/Rir | Mat | Contr | Misc | WkQty | W/OA | ACCT\# |
| 0000131 - Incline Roads |  |  |  |  |  |  |  |  |  | DR - | INAGE |
| 460 - PIPE CLEAN | 09101/15 | T1101002 LODGEPOLE DRIVIDEBRIS DEBRIS | 0 |  |  | 1.0 |  |  |  |  |  |
| 460 - PIPE CLEAN | 0901/15 | IT1101002 LODGEPOLE DRIVWATER WATER | 0 |  |  | 200.0 |  |  |  |  |  |
| 460-PIPE CLEAN | 09101/15 | T1101002 LODGEPOLE DRIVILF | 0 |  |  |  |  |  | 35.0 |  |  |
| 460 - PIPE CLEAN | 09101/45 | T1101004 PONDEROSA AVE 3102 PITTS CURTIS | R | 6:00 |  |  |  |  |  |  |  |
| 460-PIPE CLEAN | 09101/15 | TT1101004 PONDEROSA AVE 8898 LONG, BRUCE | $R$ | 6:00 |  |  |  |  |  |  |  |
| 460 - PIPE CLEAN | 09101/15 | IT1101004 PONDEROSA AVE 5561 TRUCK, VAC | 0 |  | 6:00 |  |  |  |  |  |  |
| 460- PIPE CLEAN | 09\%01/15 | IT1101004 PONDEROSA AVE DEBRIS DEBRIS | 0 |  |  | 4.0 |  |  |  |  |  |
| 460-FIPE CLEAN | 09101/45 | T1109004 PONDEROSA AVE WATER WATER | 0 |  |  | 2000.0 |  |  |  |  |  |
| 460 - PIPE CLEAN | 0901/15 | IT1101004 PONDEROSA AVE LF | 0 |  |  |  |  |  | 1205.0 |  |  |
| 460 - PIPE CLEAN | 09101/45 | $1 T 1101007$ SECOND CREEK D 3102 PITTS CURTIS | R | 0:30 |  |  |  |  |  |  |  |
| 460 - PIPE CLEAN | 09101/15 | TT1101007 SECOND CREEK D 8898 LONG, BRUCE | $R$ | 0:30 |  |  |  |  |  |  |  |
| 460-PIPE CLEAN | 09101115 | $1 T 1101007$ SECOND CREEK D 5561 TRUCK, VAC | 0 |  | 0:30 |  |  |  |  |  |  |
| 460-PIPE CLEAN | 09101/15 | IT1101007 SECOND CREEK D DEBRIS DEBRIS | 0 |  |  | 1.0 |  |  | . |  |  |
| 460-PIPE CLEAN | 09101/15 | IT1101007 SECOND CREEK D WATER WATER | 0 |  |  | 1000.0 |  |  |  |  |  |
| 460-PIPE CLEAN | 0901/15 | T1101007 SECOND CREEK D LF | 0 |  |  |  |  |  | 200.0 |  |  |
| 460-PIPE CLEAN | 09101/15 | IT1102002 WOODRIDGE CIR . 3102 PITTS CURTIS | R | 0:30 |  |  |  |  |  |  |  |
| 460 - PIPE CLEAN | 09/01/15 | T1102002 WOODRIDGE CIR . 8898 LONG, BRUCE | R | 0:30 |  |  |  |  |  |  |  |
| 460 - PIPE CLEAN | 0901/15 | T1102002 WOODRIDGE CIR . 5561 TRUCK, VAC | 0 |  | 0:30 |  |  |  |  |  |  |
| 460-pIPE CLEAN | 09/01/45 | IT1102002 WOODRIDGE CIR , DEERIS DEBRIS | 0 |  |  | 1.0 |  |  |  |  |  |
| 460-PIPE CLEAN | 09/01/15 | IT1102002 WOODRIDGE CIR , WATER WATER | 0 |  |  | 100.0 |  |  |  |  |  |
| 460 - PIPE CLEAN | 09101/15 | IT1102002 WOODRIDGE CIR . LF | 0 |  |  |  |  |  | 20.0 |  |  |
| 460 - PIPE CLEAN | 0910914 | T1104001 BURGUNDY RD . 473102 PITTS CURTIS | R | 1:00 |  |  |  |  |  |  |  |
| 460 - PIPE CLEAN | 09109/15 | IT1104001 BURGUNDY RD . 478900 HUF, RONY | $R$ | 1:00 |  |  |  |  |  |  |  |
| $460-$ PIPE CLEAN | 09109145 | IT1104001 BURGUNDY RD . 475565 TRUCK, VAC | 0 |  | 1:00 |  |  |  |  |  |  |
| 460 - PIPE CLEAN | $09109 / 15$ | IT1104001 BURGUNDY RD . 47 DEERIS DEBRIS | 0 |  |  | 2.0 |  |  |  |  |  |
| 460 - PIPE CLEAN | 0910914 | IT1104001 8URGUNDY RD . 47 WATER WATER | 0 |  |  | 200.0 |  |  |  |  |  |
| 460-PIPE CLEAN | 09/09/15 | IT1104001 BURGUNDY RD . 47 LF | 0 |  |  |  |  |  | 60.0 |  | . |
| 460 - PIPE CLEAN | 09/09/15 | IT1104002 CHAMPAGNE RD . 3102 PITTS CURTIS | R | 2:00 |  |  |  |  |  |  |  |
| 460-PIPE CLEAN | 09,0915 | IT1104002 CHAMPAGNE RD $\because 6900$ HUF, RONY | $R$ | 2:00 |  |  |  |  |  |  |  |
| 460 - PIPE CLEAN | 09/09/15 | TT1104002 CHAMPAGNE RD. 55561 TRUCK, VAC | 0 |  | $2: 00$ |  |  |  |  |  |  |
| 460-PIPE CLEAN | 09/09/15 | IT 1104002 CHAMPAGNE RD .iDEBRIS DEERIS | 0 |  |  | 3.0 |  |  |  |  |  |
| 460 - PIPE CLEAN | 09109/15 | IT1104002 CHAMPAGNE RD. SWATER WATER | 0 |  |  | 1000.0 |  |  |  |  |  |
| 460-PIPE CLEAN | 09109/15 | IT1104002 CHAMPAGNE RD. 2 LF | 0 |  |  |  |  |  | 160.0 |  | . |
| 460 - PIPE CLEAN | 09/0915 | IT1109002 FAIRVIEW 日LVD 2.3102 PITTS CURTIS | R | 4:00 |  |  |  |  |  |  |  |





## WORn REPORT DETAIL





# WASHOE COUNTY COMMUNITY SERVICES DEPARTMENT 

Engineering and Capital Projects Division

1001 East $9^{\text {th }}$ Street PO Box 11130 Reno, Nevada 89520 Telephone: (775) 328-2040 Fax: (775) 328-3699
November 20, 2015

## Dear Washoe County Resident:

This letter is being sent to you for informational purposes only because our records show that your property is very likely located in a FEMA floodplain. The County is working on ways to improve and increase its circulation and accessibility of information that pertains to the FEMA floodplain, in an effort to better educate and assist its citizens about developing and living in the floodplain. Please take the time to read the information below and if you have further questions, or would like additional information, a variety of contact information has been supplied at the end of this document.

## Overview

The Truckee River is incorporated throughout most of the Truckee Meadows in Washoe County along with several smaller streams and tributaries that are susceptible to annual flooding events. The flooding events pose threats to life and safety and have caused significant property damage. Washoe County has approximately 105,000 acres of floodplain and nearly 4,400 individual parcels that are partially or entirely located within the floodplain. Snowmelt from the Sierra Nevada mountain range contributes substantially to flooding, as well as ongoing development that has displaced natural areas that have historically functioned as flood storage.

## Recent Flooding Events

The Truckee River has had one major flood event per decade, on average. Fourteen major floods have occurred in the Truckee Meadows since 1862 when records were first kept. Our region has experienced major flood events every decade since the 1950s.

While some types of seasonal flood-related damage occurs every year, the flooding events of 1986, 1997, and 2005 represent the most recent significant flooding. In 1997, prolonged precipitation accompanied by an early snowmelt, caused by a warm-weather trend known as the "Pineapple Express" caused the Truckee River, Steamboat Creek, Boynton Slough, North Truckee Drain and several other tributaries throughout the Truckee Meadows to rise above 100-year flood levels, causing flooding in both rural and urban areas. Over 7,000 acres of land were flooded and damages were estimated to be over 700 million through out the Truckee Meadows region and over 1 billion over six counties. Washoe County estimated that the flood of 1997 affected over one-half of the overall County population.

## Causes of Flooding

Flooding occurs when climate (or weather patterns), geology and hydrology combine to create conditions where river and stream waters flow outside of their normal course and "overspill" beyond their banks. In Washoe County, the combination of these factors create chronic seasonal flooding conditions.

Flooding is most common December through March in Washoe County when storms encompassed with warmer temperatures and heavy rainfall come over the snow-packed Sierra Nevada mountains. Larger floods result from the heavier rains that continue over the course of several days, incorporated with snowmelt at a time when the soil is near saturation from previous precipitation.

Riverine flooding and urban flooding are the two types of flooding that primarily affect Washoe County. Riverine flooding is the overbank flooding of rivers and streams, the natural process of which adds sediments and nutrients to fertile floodplain areas. Urban flooding results from the conversion of land from fields or vacant land to buildings, parking lots and roads, though which the land loses its ability to absorb rainfall and the water runoff from the storms causes increased water in the low-lying areas.

## Flood Insurance

Washoe County participates in the National Flood Insurance Program (NFIP) that makes available federally backed flood insurance for all structures, whether or not they are located within the floodplain. NFIP has claims that are filed by properties located outside the 100 -year floodplain, also known as the Special Flood Hazard Area (SFHA). Following the purchase of flood insurance, NFIP imposes a 30 -day waiting period, so residents should purchase insurance before the onset of the rainy season to insure coverage during the flooding season.

Participation in the NFIP (and thus the availability of flood insurance to County residents) requires the County to manage its floodplain in ways that meet or exceed standards set by FEMA. NFIP insures building with two types of coverage: structural and contents. Structural coverage includes walls, floors, insulation, furnace and other items permanently attached to the structure. Contents coverage may be purchased separately to cover the contents of an insurable building. Flood insurance also pays a portion of the costs of actions taken to prevent flood damage.

Since July 1, 1997, all NFIP policies include Increased Cost of Compliance coverage that assists with bringing structures into compliance with current building standards, such as elevating structures 1 foot or more above the height of the 100 -year flood. The limit of this coverage is $\$ 30,000$.

Federal financial assistance requires the purchase of flood insurance for buildings located within the SFHA - a requirement that affects nearly all mortgages financed through commercial lending institutions. This mandatory requirement stipulates that structural coverage be purchased equal to the amount of the loan, or other financial assistance, or for the maximum amount available, which is currently $\$ 250,000$ for a single family residence. While the mandatory flood insurance purchase requirement has been in effect for many years, not all lending institutions have required flood insurance in the past. Today, however, most institutions are now requiring the flood insurance purchase, and some are reviewing all mortgage loans to determine whether flood insurance is required and should have been required in the past. Upon refinancing a loan, nearly all lending institutions will enforce the flood insurance requirement. It is the lender's responsibility to check the Flood Insurance Rate Map (FIRM) to determine whether a structure is within the SFHA.

The mandatory flood insurance purchase requirement does not apply to loans or financial assistance for items that are not eligible for flood insurance coverage, such as vehicles, business expenses, landscaping and vacant lots. The requirement also does not apply to loans for structures not located in a SFHA, even though a portion of the lot may be within a SFHA. Persons located within SFHA's who received disaster assistance after Sept. 23, 1994 for flood losses to real or personal property must purchase and maintain flood insurance coverage, otherwise future disaster assistance will be denied.

## Floodplain Operations

Maintaining the flow capacity in streams that cross County properties requires cooperation and assistance to prevent flooding and bank erosion. Following are some suggestions and information for understanding the ways that floodplains function and how the County regulates the floodplain in order to protect property and lives, while affording County citizens the ability to obtain floodplain insurance.

Do not dump or throw anything into ditches or streams: A plugged channel cannot carry water, and when it rains, the excess water must go somewhere. Trash and vegetation dumped into a stream degrades water quality of both the stream itself and its receiving waters, and every piece of trash contributes to flooding. The County has adopted and enforces regulations that prohibit the illegal dumping of material, including material dumped into ditches, streams of other drainage ways. Please report any observations of the dumping of debris or other objects into streams, drainage ways, or rivers to Washoe County Community Services Department at (775) 328-2040.

Remove debris, trash, loose branches and vegetation: Keep banks clear of debris to help maintain an unobstructed flow of water in stream channels. Do not remove vegetation that is actively growing on a stream bank. Streamside vegetation is tightly regulated by local, state and federal regulations. Before undertaking any removal of streamside vegetation, contact the Washoe County Community Services Department at (775) 328-2040 and the Corp of Engineers at (775) 784-5307. Please report any observations of the clearing of vegetation or trees on stream banks to the Washoe County Community Services Department.

Obtain a grading permit and/or building permit, if required: To minimize damage to structures during flood events, the County requires all new construction in the floodplain to be anchored against movement by floodwaters, resistant to flood forces, constructed with flood-resistant materials and flood-proofed or elevated so that the first floor of living space, as well as all mechanical services, is at least 1 foot above the elevation of the 100-year flood. These standards apply to new structures and to substantial improvements of existing structures. The County defines a Substantial Improvement as any reconstruction, rehabilitation, or addition to an existing structure, the cost of which exceeds 50 percent of the structure's appraised or market value. Additionally, most other types of development within the floodplain also require a grading permit which includes cut and fill, installation of riprap and other bank stabilization techniques. County staff is available to undertake site visits, if required, to review flood drainage and grading issues. Contact the Washoe County Community Services Department at (775) 3282040 for information and prior to undertaking any activity within the floodplain or if you see nonpermitted building or filling in the floodplain.

Recognize the natural and beneficial functions of floodplains to help reduce flooding: Floodplains are a natural component of the Washoe County environment. To understand and protect the natural functions of floodplains helps reduce flood damage and protect resources. When flooding spreads out across the floodplain, its energy is dissipated, which results in lower flood flows downstream, reduced erosion of the stream bank and channel, deposition of sediments higher in the watershed and improved groundwater recharge. Floodplains are scenic, valued wildlife habitat, and suitable for farming. Poorly planned development in floodplains can lead to stream bank erosion, loss of valuable property, increased risk of flooding to downstream properties and degradation of water quality.

Reduce risk of damage to homes: Practical and cost-effective methods for reducing or eliminating the risk of flooding are available to property owners whose homes have experienced damage from flooding in the past, or may experience damage in the future. Such techniques include elevation of the home, relocating the home to higher ground and protecting utilities. For further information, contact the Washoe County Community Services Department at (775) 328-2040. During times of flooding, homes that have
not been retrofitted can be protected during emergencies by the installation of sandbags. For further information about sandbags and the locations of sites where sandbags are available during flooding, contact Washoe County Community Services Department or visit our Web site at: www.washoecounty.us/em/ . In case of an emergency, call 911.

County floodplain information services: The County can determine the relationship of a particular property to the floodplain, including: 1) whether the property is located within the Special Flood Hazard Area; 2) Flood Insurance Rate Map (FIRM) Zone for the property; 3) Base Flood Elevation for a property, if available; and 4) whether the property is located within the Floodway. The County also maintains elevation certificates for review, if available. Contact the Washoe County Community Services Department at (775) 328-2040 for information. All of this information can also be accesses through "Washoe County FEMA DFIRM Map", a database program for public access located on the Washoe County web site at: http://wcgisweb.washoecounty.us/fema/.

The County has flood warning information available that can be accessed through our Web site at: www.washoecounty.us/em/ The Web site includes information about sandbag locations and ways to contact and listen to the National Weather Service. It also has an informational brochure that explains how people can prepare for an emergency.

## Consideration during flooding events

Prepare an evacuation plan: Before the floodwaters hit, develop an evacuation plan among all members of a household that includes a meeting place outside of the house, as well as an escape route out of the floodplain and away from floodwaters.

Do not walk through flowing water: Drowning is the number one cause of flood deaths, mostly during flash floods. Currents can be deceptive; six inches of moving water can knock you off your feet. If you walk in standing water, use a pole or stick to ensure that the ground is still there.

Do not drive through a flooded area: More people drown in their cars than anywhere else. Don't drive around road barriers; the road or bridge may be washed out.

Stay away from power lines and electrical wires: The number two flood killer after drowning is electrocution. Electrical current can travel through water. Report downed power lines to the Sierra pacific Power Company or your utility provider.

Shut off gas and electricity and move valuable contents upstairs: Be prepared in advance with a detailed checklist because warning of an impending flood may provide little time for preparation prior to evacuation. Use a flashlight to inspect for damage. Don't smoke or use candles, lanterns of open flames unless you know that the gas has been turned off and the area had been ventilated

Look out for animals, especially snakes: Small animals that have been flooded out of their homes may seek shelter in yours. Use a pole or stick to poke and turn things over and scare away small animals.

Look before you step: After a flood, the ground and floors are covered with debris including broken bottles and nails. Floors and stairs that have been covered with mud can be very slippery.

For more information, see attach brochure.

## Contact Information

If you would like to learn more about flood information, insurance and/or safety, please contact or visit the website links of the different organizations:

1) Washoe County Emergency Management

Phone: (775) 328-2040
Web: http://www.washoecounty.us/em/
2) Washoe County Internet Flood Management Information

Phone: (775) 328-2040
Web: https://www.washoecounty.us/csd/engineering capitalproiects/floodplain management.php
3) FloodSmart.gov NFIP

Phone: (888) 379-9531
Web: http://floodsmart.gov/floodsmart/
4) Truckee Meadows Flood Awareness

Web: http://www.floodawareness.com/
5) Truckee River Flood Project

Web: http://www.truckeeflood.us/
6) Floodplain Management Association

Web: http://www.floodplain.org/
7) Association of State Floodplain Managers

Web: http://www.floods.org/
8) U.S. Army Corps of Engineers

Web: http://www.usace.army.mil/
9) Nevada Floodplain Management Program

Phone: (775) 687-4380 ext. 232
Web: http://water.nv.gov/programs/flood/
10) State of Nevada Dams and Dam Safety

Phone: (775) 684-2800
Web: http://water.nv.gov/programs/dams/index.cfm

# Community Rating System 

## Activity 630 - Dams

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1) Washoe County Emergency Management

Phone: (775) 328-2040
Web: http://www.washoecounty.us/em/
2) Washoe County Internet Flood Management Information

Phone: (775) 328-2040
Web: https://www.washoecounty.us/esd/engineering capitalprojects/floodplain management.php
3) FloodSmart.gov NFIP

Phone: (888) 379-9531
Web: http://floodsmart.gov/floodsmart/
4) Truckee Meadows Flood Awareness

Web: http://www.floodawareness.com/
5) Truckee River Flood Project

Web: http://www.truckeeflood.us/
6) Floodplain Management Association

Web: http://www.floodplain.org/
7) Association of State Floodplain Managers

Web: http://www.floods.org/
8) U.S. Army Corps of Engineers

Web: http://www.usace.army.mil/
9) Nevada Floodplain Management Program

Phone: (775) 687-4380 ext. 232
Web: http://water.nv.gov/programs/flood/
10) State of Nevada Dams and Dam Safety

Phone: (775) 684-2800
Web: http://water.nv.gov/programs/dams/index.cfm

## Corbridge, Kimble

| Trom: | Corbridge, Kimble |
| :--- | :--- |
| _ent: | Wednesday, September 21, 2016 4:21 PM |
| To: | Corbridge, Kimble |
| Subject: | FW: FEMA CRS Recertification |
| Attachments: | Washoe County - Dwayne Smith, J-579, J-580, J-014, and J-463, Washoe County Dams |
|  | North Spanish Springs Flood Sediment Basin - MMM CMT ac.pdf; Washoe County - |
|  | Dave Solaro (NV10384, J-325) Huffaker Letter - EQ MB ac.pdf; Washoe |
|  | County_DamsMain.xlsx |

[^6]Kimble, I have attached some inspection reports on Washoe county dams and a spreadsheet for easy viewing. It looks like Emergency action plans need to be submitted on a few facilities.

As for dam safety outreach, see this video link that was done this year.
http://water.nv.gov/data/dams/NV Dam Safety Video Final 1080p.mp4lat is about all I can offer in this matter.

## Best of Luck,

## P. Lake Opperman P.E.

Staff III Engineer, Dam Safety
Division of Water Resources
775-684-2826
lopperman@water.nv.gov

| NATID | STATEID | DAMNAME | evision_Date |
| :--- | :--- | :--- | :--- |
| NV10371 | $J-014$ | HERMAN DAM <br> HUFFAKER EFFLUENT |  |
| NV10384 | $J-325$ | STORAGE RESERVOIR | $2-02$ |
| NV10438 | $J-039$ | DAVIS PARK LAKE |  |
| NV10509 | $J-463$ | SIDEHILL DETENTION BASIN |  |
|  |  |  |  |
| NV10551 |  | SIERRA SAGE PONDS |  |
| NV10653 | $J-579$ | FLOOD SEDIMENT BASIN |  |
| NV10654 | $J-580$ | FORTH SPANISH SPRINGS |  |
| FLOOD DETENTION FACILITY |  |  |  |



# DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES DIVISION OF WATER RESOURCES <br> <br> 901 South Stewart Street, Suite 2002 <br> <br> 901 South Stewart Street, Suite 2002 <br> Carron City, Negada 89701-5250 <br> (775) 684-2800 • Fax (775) 684-2811 <br> http://water, ny.gov 

May 6, 2016
Dave Solaro, P.E.
Director, Public Works
Washoe County
1001 East Ninth Street
Reno, NV 89502
Re: Huffaker Hills Effluent Storage Reservoir, NV10384 (J-325)
Dear Mr. Solaro:
On April 8, 2016, Eddy Quaglieri, P.E. and Michelle Barnes, of the State Engineer's Office, met with Dwayne Smith to inspect the Huffaker Hills Effluent Storage Reservoir (Huffaker Reservoir). The purpose of the inspection was to determine the condition of the structure with respect to dam safety. The Huffaker Reservoir is classified as a high hazard dam due to downstream development or activity.

Since the last dam inspection, the second phase of the liner was completed. Staff from this office visited the site during the installation of the liner on November 17, 2015. We are aware, at the time of this inspection, that Washoe County is in the preliminary planning stages of a possible effluent interconnection pipeline between the Truckee Meadows Water Reclamation Facility (TMWRF) and the Huffaker Reservoir, which will utilize the existing inlet pipes. Please keep our office up to date on the progress of this option for additional effluent storage plan at the Huffaker Reservoir, as dam safety concerns may be needed to be addressed.

The dam is considered to be in fair condition due to the corrective action items summarized in this report. It should be noted that several of these corrective action items have been reported in previous inspection reports. Based on the engineer's observations, the following corrective actions should be taken.

## IMMEDIATE (90 DAYS)

1) The currently filed Emergency Action Plan (EAP) has not been updated recently. Please review the notification flow chart and update the EAP as needed and submit the revision to all interested parties per NAC 535.320. 1) (noted in 2013, 2014, and 2015 reports). It should be noted that the EAP on file with the State Engineer is dated 2008.
2) Vegetation should be removed along the crest and along downstream face (noted in 2013, 2014, and 2015 reports).

## SHORT TERM (1 YEAR)

1) Maintain an operation manual and log for the structure. This log will be used to track visits to the dam and any maintenance work or operations changes that were completed during the visit.
2) Pop out area in slab should be scaled off and filled with appropriate material (noted in 2013, 2014, and 2015 reports).
3) Parapet wall should be sealed to prevent moisture from entering and exacerbating small cracks (noted in 2013, 2014, and 2015 reports). Environmental damage to parapet wall and concrete slabs along upstream embankment should be assessed during each inspection and repaired as needed.
4) All void/form holes in parapet wall should be filled (noted in 2014 and 2015 reports).
5) Expansion joint sealant at heel of parapet wall (reservoir side) should be repaired (noted in 2014 and 2015 reports).
6) Erosion gullies along north end of crest/access road should be monitored (noted in 2014 and 2015 reports).

## LONG TERM (3 YEARS)

1) The water levels in the reservoir should continue to be measured on a regular basis and records kept along with continued monitoring for potential leakage from the liner (noted in 2013, 2104, and 2015 reports).
2) The dam should be surveyed for comparison with previous survey data.
3) Review and update EAP when/if additional volume contribution from TMWRF occurs.
4) Monitor concrete deterioration on the second relief well from the west.
5) Remove debris from relief well outlet pipes.
6) Monitor rodent activity and backfill holes to prevent further propagation.

If you have any questions or comments regarding this report, please feel free to contact Eddy Quaglieri, P.E. at (775)684-2800.

Huffaker Hills Effluent Storage Reservoir, NV10384 (J-325)
May 6, 2016
Page 3 of 3
Sincerely,


Eddy Quaglieri, P.E. Manager II


Michelle Bames
Water Resource Specialist I
EQ/MB/ac
Enclosure
cc: Joe Howard, Operations Manager, Washoe County Dwayne Smith, P.E., Division Director, Engineering and Capital Projects, Washoe County Alan Jones, Project Manager, Engineering and Capital Projects, Washoe County

## Floodplain Management

## Flooding in Washoe County

The Truckee River, and many smailer streams and tributaries throughout our community, are susceptible to annual flooding events. Washoe County has more than 100,000 acres of floodplain and nearly 4,400 individual parcels that are partially or entirely located within the floodplain. While winter flooding is most common in our community, river and urban flooding can happen anytime of year.

Please download Washoe County's Flood Awareness brochure -- it will help you be prepared in case of a flood.

## National Flood Insurance Program

Washoe County has been a member of the National Flood Insurance Program (NFIP) since 1984. NFIP membership makes available federally-backed flood insurance for all structures, whether or not they are located within the floodplain. Because NFIP imposes a 30-day waiting period, residents should plan accordingly to ensure coverage during the flooding season.

Please read our July 2014 letter about the mandatory purchase of flood insurance requirement and a related letter that seeks to assist citizens with understanding floods, the floodplain, and flood insurance.

## FEMA's Community Rating System Benefits

In May 2009, Washoe County qualified to be part of the FEMA Community Rating System (CRS). The program rewards communities that initiate more than the minimum NFIP requirements to help citizens prevent or reduce flood loses. Washoe County qualified for CRS Class 7 which provides the unincorporated Washoe County residents $15 \%$ discounts on flood insurance premiums. CRS Class 7 rating will save the Washoe County flood policy holders about $\$ 100,000$ per year.

The goal of the CRS is to encourage, by use of Flood Insurance Premiums reductions, community and state activities beyond those required by the NFIP to reduce flood loses, to facilitate accurate insurance rating and to promote awareness of the availability to purchase flood insurance.

## Flood Insurance Rate Maps

Flood Insurance Rate Maps are the official community maps on which FEMA has delineated both the special hazard areas and the risk premium zones applicable to a community. The CSD Engineering \& Capital Projects Division is the repository for the Flood Insurance Rate Maps for Washoe County; these maps can be viewed online or reviewed in our office.

## For More Information

The Truckee River Flood Project is a joint effort between Reno, Sparks, Washoe County, the US Army Corps of Engineers, and numerous stakeholders to reduce the impact of flooding in the Truckee Meadows, restore the Truckee River ecosystem, and improve recreational opportunities by managing the development and implementation of the Truckee River Flood Control.

Nevada Floods seeks to raise awareness among residents of the serious flooding that happens regularly in our state.

## Dam Safety Video

Nevada Dam Safety Video, click here to view.


STATE OF NEVADA
Governor

LEO DROZDOFF
Director
JASON KING, P.E.
State Engineer

# DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES DIVISION OF WATER RESOURCES 

901 Bouth Stewart Street, Suite 2002
Carson Clty, Nevada $89701-5250$
(775) 684-2800 • Far (775) 684-2811
http://rater.ny.gov
August 25, 2016

## Dwayne Smith

Washoe County
4930 Energy Way
Reno, NV 89502
Certified Mail: 71067808063000639385
Re: Washoe County Dams North Spanish Springs Flood Sediment Basin (J-579), North Spanish Springs Flood Detention Facility (J-580), Herman Dam (J-014), and Sidehill Dam (J-463)

Dear Mr. Smith:
On August 16, 2016, Chris Thorson, Melissa Marr, Keith Johnson and Erielle Cushing, of the State Engineer's Office, along with Alan Jones inspected the North Spanish Springs Flood Sediment Basin, North Spanish Springs Flood Detention Facility, Herman Dam and Sidehill Dam. The purposes of the inspections were to determine the conditions of the structures with respect to dam safety. All of the dams, with the exception of Sidehill Dam, are classified as high hazard dams due to downstream development or activity, while Sidehill Dam is classified as a significant hazard dam based on that same criteria.

The overall conditions of the dams are fair. Based on the engineer's observations, the following corrective actions should be taken.

## Immediate ( 60 Days)

## All Dams

1. PUBLIC SAFETY/SECURITY - Pursuant to NAC 535.140, An Emergency Action Plan (EAP) must be developed for this dam and a copy provided to the State Engineer. The State Engineer requires that a plan of action be submitted to this office within 60 days of the date of this letter. This plan will outline the timeline and process needed to submit an

Dwayne Smith

Washoe County
Page 2 of 5
EAP. If this plan is not received, this issue may be sent to the enforcement and compliance section.

## Short Term (1 Year)

## Herman Dam

1. PRINCIPAL SPILLWAY - Debris: Remove all obstructions/debris from the spillway. Photos Attached.
2. RESERVOIR - Debris And Vegetation: Remove all woody and deep rooted vegetation and debris in reservoir within 25 feet of the embankment and outlet works. - Photos Attached.
3. PRINCIPAL SPILLWAY - Downstream Channel Conditions: The outlet channel will need to be cleared of all vegetation to prevent a backwater condition and allow the full flow of water to be discharged from the outlet conduit.
4. AUXILIARY SPILLWAY - Downstream Channel Conditions: The outlet channel will need to be cleared of all vegetation to prevent a backwater condition and allow the full flow of water to be discharged from the outlet conduit. - Photos Attached.
5. DOWNSTREAM FACE - Vegetation: Remove vegetation within 25 feet of the structure and disposed of offsite.
6. UPSTREAM FACE - Vegetation: Remove vegetation within 25 feet of the structure and disposed of offsite. - Photos Attached.
7. AUXILIARY SPILLWAY - Vegetation: Remove vegetation within 25 feet of the structure and disposed of offsite. - Photos Attached.

## North Spanish Springs Flood Sediment Basin

8. UPSTREAM FACE - Inappropriate Uses: Inappropriate uses of the dam were observed. Traffic should be deterred and current damage repaired to prevent further deterioration. Photos Attached.
9. PRINCIPAL SPILLWAY - Inappropriate Uses: Inappropriate uses of the dam were observed. Traffic should be deterred and current damage repaired to prevent further deterioration. - Photos Attached.
10. AUXILIARY SPILLWAY - Inappropriate Uses: Inappropriate uses of the dam were observed. Traffic should be deterred and current damage repaired to prevent further deterioration.
11. UPSTREAM FACE - Vegetation: Remove vegetation within 25 feet of the structure and disposed of offsite. - Photos Attached.
12. PRINCIPAL SPILLWAY - Debris: Remove all obstructions/debris from the spillway, Photos Attached.

## North Spanish Springs Flood Detention Facility

13. UPSTREAM FACE - Inappropriate Uses: Inappropriate uses of the dam were observed. Traffic should be deterred and current damage repaired to prevent further deterioration. Photos Attached.
14. DOWNSTREAM TOE AND AREA - Rodent Activity: Significant rodent activity and burrows were observed. You must properly backfill and compact any holes and prevent further propagation. A rodent control program should be instituted. - Photos Attached.
15. PUBLIC SAFETY/SECURITY - Vandalism: Vandalism was observed. Repair damage as needed and consider installing access prevention measures.
16. UPSTREAM FACE - Vegetation: Remove vegetation within 25 feet of the structure and disposed of offsite. - Photos Attached.

## Sidehill Detention Basin

17. INLET TO RESERVOIR - Debris: There was debris and sediment in the three inlet pipes. This debris and sediment should be removed to allow for full design flow into the reservoir. - Photos Attached.
18. PRINCIPAL SPILLWAY - Downstream Channel Conditions: The outlet channel will need to be cleared of all vegetation to prevent a backwater condition and allow the full flow of water to be discharged from the outlet conduit.
19. DOWNSTREAM FACE - Inappropriate Uses: Inappropriate uses of the dam were observed. Traffic should be deterred and current damage repaired to prevent further deterioration. - Photos Attached.
20. PRINCIPAL SPILLWAY - Spillway Control: Outlet gate valve should be left in fully open position to allow for discharge of flow during storm event. Someone would have to

- go onsite to be able to open valve to allow for water to discharge reservoir.

21. CREST - Vegetation: Vegetation observed along the crest impeded a thorough inspection. Deep rooted vegetation and trees must be removed and deposited off-site. Once cleared conduct a visual inspection and repair as needed. - Photos Attached.
22. UPSTREAM FACE - Vegetation: Vegetation observed along the crest impeded a thorough inspection. Deep rooted vegetation and trees must be removed and deposited off-site. Once cleared conduct a visual inspection and repair as needed. - Photos Attached.

Dwayne Smith<br>Washoe County

Page 4 of 5

## Long Term (2 Years)

## All Dams

1. PUBLIC SAFETY/SECURITY - Pursuant to NAC 535.370, operation and maintenance records should be developed and retained by personnel for each dam/facility.

## North Spanish Springs Flood Sediment Basin

1. CREST - Concrete Joints: The expansion joint sealant in the spillway should be repaired or replaced. - Photos Attached.
2. AUXILIARY SPILLWAY - Debris: Remove obstructions/debris within 25 feet of structure. - Photos Attached.
3. PRINCIPAL SPILLWAY - Downstream Channel Conditions: The outlet channel should be cleared of brush and debris to eliminate the backwater condition at the downstream invert of the outlet conduit. - Photos Attached.
4. AUXILIARY SPILLWAY - Outlet Approach:
5. DOWNSTREAM TOE AND AREA - Rodent Activity: Rodent activity should be monitored and any holes discovered should be backfilled and properly compacted. A rodent control program should be instituted. - Photos Attached.
6. PRINCIPAL SPILLWAY - Siltation: Some siltation was observed in the reservoir and should be monitored to ensure sufficient capacity of the reservoir. - Photos Attached.
7. CREST - Concrete Joints: The expansion joint sealant in the spillway should be repaired or replaced. - Photos Attached.

## North Spanish Springs Flood Detention Facility

8. AUXILIARY SPILLWAY - Debris: Remove obstructions/debris within 25 feet of structure. - Photos Attached.
9. PRINCIPAL SPILLWAY - Downstream Channel Conditions: The outlet channel should be cleared of brush and debris to eliminate the backwater condition at the downstream invert of the outlet conduit. - Photos Attached.
10. AUXILIARY SPILLWAY - Outlet Approach:
11. DOWNSTREAM TOE AND AREA - Rodent Activity: Rodent activity should be monitored and any holes discovered should be backfilled and properly compacted. A rodent control program should be instituted. - Photos Attached.

Dwayne Smith
Washoe County
Page 5 of 5
12. PRINCIPAL SPILLWAY - Siltation: Some siltation was observed in the reservoir and should be monitored to ensure sufficient capacity of the reservoir. - Photos Attached.

## Sidehill Detention Basin

1. RESERVOIR - Debris And Vegetation: There were piles of tires and debris located in the reservoir. This material should be removed and all lose item (i.e.: benches, trash cans, tables, etc.) should be tied down to prevent clogging the primary and auxiliary spillway.
2. DOWNSTREAM FACE - Erosion Gullies: Erosion rills on face of embankment should be monitored and filled if they become further incised.
3. UPSTREAM FACE - Inappropriate Uses. Possible inappropriate uses of the dam were observed. Consider modifying current practices and installing access prevention measures.
4. DOWNSTREAM FACE - Vegetation: Continue monitoring vegetation and removing brush and trees before becoming well established. - Photos Attached.
5. INLET TO RESERVOIR - Vegetation: Continue monitoring vegetation and removing brush and trees before becoming well established. - Photos Attached.
6. AUXILIARY SPILLWAY - Vegetation: Remove vegetation within 25 feet of the structure and disposed of offsite. - Photos Attached.

The above items are considered maintenance issues and do not require a new approval of plans and specifications (permit). If you have any questions, please feel free to call the undersigned at (775) 684-2843 or email at cthorson@water.nv.gov.


Chris Thorson, P.E


Water Specialist II

## MMM/CMT/ac

cc: $\quad$ Walter West, Washoe County Water Resources/Engineering Division
Sun Valley General Improvement District


[^0]:    Engineering Division Staff

[^1]:    
    

[^2]:    Tresday - Sep 27,2016

[^3]:    Tuesday - Sep 37,2016

[^4]:    Page 15 of 15

[^5]:    Tuesday - Sep 27.2016

[^6]:    From: Luke Opperman [mailto:lopperman@water.nv.gov]
    Sent: Wednesday, September 21, 2016 2:03 PM
    To: Corbridge, Kimble
    Cc: Dave Willard
    Subject: RE: FEMA CRS Recertification

