The attached document was submitted to the Washoe County Board of Commissioners during the meeting held on December 12, 2017. by Community Services for Agenda Item No. 9 and included here pursuant to NRS 241.020(8).
2017 North Valleys Flood Update

- SUMMARY OF 2017 FLOOD EVENTS
- 2017 FLOOD RESPONSE - PUBLIC SAFETY MISSION
- FEMA ACQUISITION AND STRUCTURE DEMOLITION GRANT
- 2017/18 PREPERATION AND CURRENT ACTIVITIES
- 2017 FLOOD CLARIFICATION AND FACTS
- OUTLOOK/NEXT STEPS
SUMMARY OF 2017 FLOOD EVENT

- 20+ Atmospheric River Events (2016\17 water year*)
  - Saturated Ground = Runoff
  - Over 16.82 inches total precipitation (rain and snow) *Desert Springs Gauge
  - Precipitation and runoff records

RESULT – Severe Flooding in Northern Nevada Counties - Presidentially Declared Flood Disasters – January (4303) and February (4307)

- Impacts
  - Residential Impacts
  - Public Infrastructure
    - FEMA Claims For Northern Nevada – Approaching $30 million
    - WC Has Submitted Over $6 Million in Claims For Entire County
      - Over $3 Million For Swan and Silver Lake Areas
SUMMARY OF 2017 FLOOD EVENT

Swan Lake Water Elevations 2017

Top of HESCO Barrier = 4926 ft Elevation

FEMA Designated Flood Plain = 4924 ft Elevation

Highest Water Lake Level = 4923.3 ft Elevation on April 21, 2017 (After HESCO was installed)
FLOOD RESPONSE – PUBLIC SAFETY MISSION

- Notifications/Site Visits – Beginning in December 2016
- Sand and Bags Were Staged
- Sandbagged Many Homes/Church - NDF
- Activated EOC January 2017
- Local Jurisdictions/USACE/State of Nevada/FEMA/Task Force 1
- HESCO Temporary Flood Barriers – March 14th
  - Flooding Was Contained Beginning March 14th, Water Removed From Behind Barriers by March 23rd
  - Storm Water Pumps, Diver, Maintaining Protection Areas
- Social Services
  - Housing Assistance For WC Residents
  - Command Post
  - Portable Showers/Porta-Potty
  - Gift Cards/Fund Raiser/Water/Food
FLOOD RESPONSE – PUBLIC SAFETY MISSION

- Waste Water Treatment Facilities – Lemmon Valley and Stead
  - Protection of LV Waste Water Reclamation Facility – Raise Berms
  - Temporary Additional Disinfection Installed
  - Sealing Manholes
  - NDEP Recognizes Proactive Work, Satisfied With Response
  - Alternative Pumping Plan For Lemmon Valley to Stead

- Washoe County and City of Reno Roadways
  - Cleaning/Clearing Ditches and Culverts
  - Closed Lemmon Drive – March 14th With HESCO Construction
    - Aug 4th – Were able to open Waterash St. To the South
    - Posted 25 mph
    - Prepared to reinstall HESCO When Required
  - Deodar Road Used As Alternative Route
FLOOD RESPONSE – PUBLIC SAFETY MISSION

- Washoe County Health Department
  - Mosquito abatement – Additional $800k Approved
  - Swan Lake Water Quality Tests – Meets/Exceeds Recreational Water Quality Standards
  - Free Domestic Well Water Quality Testing
- Multiple Public Meetings
FEMA – HMGP Acquisition and Demolition

Purpose: To Eliminate Reoccurring Mitigation Costs

- FEMA Covers 75% of Costs, Washoe County Covers 25%
- Staff Requested Consideration for up to $500k Funding From WC
- Board Directed Staff to Return With List of Possible LV Participants
- Criteria
  - Documented Water in Living Space
  - Inhabitable Due to Septic System or Well Impacts
  - Inaccessible for Sustained Period of Time
- Initial 10 properties Identified
- 9 Property Owners - Written Notification of Interest
  - New Life Assembly of God Church Declined

If Directed to Submit Applications;
- Conduct Appraisals
- Submit Applications by February 2018 (anticipated earlier)
- WC Property Used for 25% Requirement – Sell LV Property
2017/18 CURRENT ACTIVITIES AND PREPERATION

- Continue Maintenance of Existing HESCO Temporary Flood Barriers
- Additional Barriers - Request Authorization for up to $300K for Additional Berm and HESCO Barrier on Pompe Way.
  - Requires 260’ Long Earth Berm (WC Construction)
  - Approximately 1,300 lf of HESCO (double stack)
  - Additional Storm Water Pumps Required
- Continue Response to Storm Water Impacts
- Continue Additional Sewer Treatment Plant Operations
- Continue Working with Emergency Providers, State of Nevada, FEMA
- Continue Communication with Residents

Requirement: Maintain Existing Flood Protection Levels and Provide Status Updates to Residents and Washoe County Board
CLARIFICATION AND FACTS

- Red and Yellow Tagged Homes
  - Initially 26 Homes Were Tagged
    - Criteria Used - Washoe County Building Code
  - Currently 11 Homes Tagged
    - Letters Identifying Outstanding Issues Provided

- Residents in Long Term Housing
  - Initially Short Term Hotel Stay - Conversion to Long Term Housing for 14 Families
  - Currently 6 Families in Housing – Expect 4 By January
  - Housing Assistance Was Due to Expire July 2017 - WC Requested and Received 2 Extensions From The State (NDH)
  - Residents Were Noticed That Per NDH, Beginning Jan 1, 2018 They Will Need To Pay A Portion of Housing Costs.
CLARIFICATION AND FACTS

- Status/Durability of HESCO Barriers
- Location of HESCO Barriers Along Existing Roadways
- Waste Water Treatment Plant Flows Into Swan Lake
  - Are Within Discharge Limits For Quality and Quantity
- New Development
- Drilling 2 Test Holes By City of Reno
- Pumping Silver Lake to Swan Lake
- Power Poles for Storm Water Pumps
- Questions Regarding Home Elevation
OUTLOOK/NEXT STEPS

- Closed Basin Flood Response Plan
- Closed Basin Flood Mitigation Plan
- Review/Update Development Code
- FEMA Reimbursement
- Public Outreach/Planning