

Emergency Support Function (ESF) # 3

Public Works and Engineering



Preface

Public Works

Critical public works infrastructure such as roads, waste management and sewer systems can be damaged or destroyed during catastrophic emergency events. This infrastructure is vital to support the health, safety and welfare of the public during emergency response.

Debris Management

Emergencies may create a variety of debris that impact the City-County's ability to provide emergency response and may affect the health and safety of the public. Clearing debris to permit travel emergency vehicles and removal of debris to protect health and safety are vital components of the City-County's emergency response.

Primary Agency

Butte-Silver Bow Public Works Department

Butte–Silver Bow, Montana

Emergency Operations Center ESF # 3 – Public Works and Engineering

Purpose:

1. To facilitate protection, repair and restoration of City-County-owned physical infrastructure for roads, waste management, storm-water management systems, and water and sewer systems.
2. This function provides for the coordination of emergency road clearance, debris collection and disposal, and flood containment activities.

<p>Primary:</p> <ul style="list-style-type: none"> • Public Works Department Support: • Law Enforcement Department • Butte–Silver Bow Public Schools • Parks and Recreation Division • Public Health Department • Geographic Information Systems • Private Sector Companies • Utility Division DPW • Services Division DPW • NorthWestern Energy/ Utilities <p>Public Works Likely Tasks:</p> <ul style="list-style-type: none"> • Staff ESF # 3 within the Butte – Silver Bow EOC Operations Section. • Ensure operation of Public Works dispatch and reporting systems. • Identify incident sites requiring Public Works services. • Track resources deployed for emergency response. • If possible, provide mutual aid as requested by the State EOC. • Develop priorities and coordinate with utility companies the restoration of utilities to critical and essential facilities. • Provide logistical support for demolition operations. • Determine present and future need for Public Works resources to support: <ul style="list-style-type: none"> - Road, bridge repair. - Flood control. - Sanitation services. - Repair to infrastructure: traffic control systems, sewer lines, storm water management systems. • Determine condition, status of City-County Public Works resources. • Obtain and coordinate public works response teams/personnel, equipment, and vehicles to the emergency scene, staging area, or other location(s), as appropriate. • Sources for additional resources can include: <ul style="list-style-type: none"> - Mutual aid. - State EOC. - Region, state and federal resources. – Private companies, contractors. • Coordinate the removal of debris with state, and federal environmental officials. 	<p>Debris Management Likely Tasks:</p> <ul style="list-style-type: none"> • Maintain inventories of resources and equipment. • Maintain a Debris Management Plan. • Maintain mutual aid agreements. • Appoint a debris management coordinator; Implement the City County’s Debris Management Plan. • Coordinate emergency road clearance and removal of debris for reconnaissance of the damaged areas and passage of emergency personnel and equipment for health and safety purposes. • Identify incident sites requiring debris clearance and management: Public rights-of-way; Public property; Private property. • Recommend disposal sites for debris: <ul style="list-style-type: none"> - Temporary staging areas and debris reduction sites. • Provide logistical support for demolition operations. • Administer and manage contracted services. • Coordinate the removal of debris with City-County, state, and federal environmental officials. • Coordinate debris collection and hauling: <ul style="list-style-type: none"> - Coordinate debris removal operations in areas affected by emergencies. • Coordinate debris separation. Debris from residential and commercial properties will be separated into four general groups: <ul style="list-style-type: none"> - Raw garbage, rubbish garbage, yard waste and construction/ building rubble. - Separate hazardous materials and hazardous waste from debris to the extent possible. • Coordinate debris disposal. <ul style="list-style-type: none"> - Identify debris disposal issues, i.e. hazardous materials. - Secure necessary environmental permits and legal clearances. • Determine methods of disposal as appropriate: <ul style="list-style-type: none"> - Open pit burning and burning by incineration methods. - Mulching and chipping clean horticultural waste. - Hauling mulched or chipped waste out of the City/County. - Mixing mulch or chipped clean waste with soil to improve agricultural productivity. - Reuse/recycle for aluminum, plastic and horticultural waste to the extent possible.
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State of Montana

<p>Primary</p> <ul style="list-style-type: none"> • Transportation <p>Support</p> <ul style="list-style-type: none"> • DNRC (Dam Safety) • Environmental Quality • Montana Department of Transportation • General Services Division (DOA) • MT Highway Patrol • MT National Guard (DMA) 	<p>Actions</p> <ul style="list-style-type: none"> • Infrastructure protection and emergency repair • Infrastructure restoration • Engineering services and construction management • Emergency contracting support for life-saving and life sustaining services
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Federal Government

<p>Primary</p> <ul style="list-style-type: none"> • Army Corps of Engineers <p>Support</p> <ul style="list-style-type: none"> • FEMA <p>Actions</p> <ul style="list-style-type: none"> • Provide public works and engineering-related support for the changing requirements of domestic incident management to include preparedness, prevention, response, recovery, and mitigation actions. 	<p>Actions Continued:</p> <p>Activities include: conducting pre- and post-incident assessments of public works and infrastructure; executing emergency contract support for life-saving and life-sustaining services; providing technical assistance to include engineering expertise, construction management, and contracting and real estate services; providing emergency repair of damaged infrastructure and critical facilities; and implementing and managing the DHS/Emergency Preparedness and Response.</p>
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Butte–Silver Bow Office of Emergency Management

Comprehensive Emergency Management Plan

Emergency Support Function # 3

Public Works

Lead Agency: Butte-Silver Bow Public Works Department

Primary Coordinator: Public Works Department Director

Support Organizations: Law Enforcement Department
Parks and Recreation Division
DPW Services Division
DPW Utility Division
Public Health Department
Geographic Information Systems
NorthWestern Energy
Montana Highway Patrol

I. INTRODUCTION.

A. PURPOSE.

1. To facilitate protection, repair and restoration of City-County-owned physical infrastructure for roads, waste management, storm-water management systems, and sewer systems.
2. This function provides for the coordination of emergency road clearance, debris collection and disposal, and flood containment activities.

B. SCOPE.

To unify the efforts of public and private organizations for a comprehensive and effective approach to:

1. Provide organizational structure, guidance, and standardized guidelines for the clearance, removal, and disposal of debris caused by debris-generating events.

2. Establish the most efficient and cost-effective methods to resolve emergency debris removal and disposal issues.

3. Implement and coordinate private sector debris removal and disposal contracts to maximize cleanup efficiencies.
4. Expedite debris removal and disposal efforts that provide visible signs of recovery designed to mitigate the threat to the health, safety, and welfare of residents.
5. Coordinate relationships through communications and pre-planning with local, state, and federal agencies that have debris management responsibilities.
6. Plan, coordinate, initiate, and implement the restoration of all transportation routes, bridges, and access to public structures affected by the emergency event. Coordinate emergency contracting and emergency repair of drainage systems, solid waste facilities and flood control systems.

C. SITUATION.

1. Any form of emergency may cause unprecedented property damage. Homes, structures, bridges, and other facilities will be damaged or destroyed and must be reinforced, demolished, or isolated to ensure safety. Streets, highways, bridges and bridge approaches, and other forms of transportation will be damaged and unusable.
2. The City-County will continue to be exposed to various hazards resulting in damage to both public and private property.
3. A significant response of both solicited and unsolicited resources from outside the impacted area can be expected and precautions must be made in order to manage this assistance.

D. POLICIES.

1. Provide public works services to lands and facilities under local jurisdiction. Emergency public works response to private property shall be done only when authorized, or when life or public health is threatened.
2. Clear transportation routes as per public safety priorities.
3. Debris clearance is critical to life safety and security. Debris removal efforts will first focus on clearing of major transportation routes and roadways into damaged areas to allow for the movement of emergency vehicles, personnel, equipment and supplies.
4. Debris removal is necessary in affected areas to prevent the development and spread of vector-based epidemiological agents, general sanitation problems and environmental damage.

5. All disposal activities will be conducted with health and environmental concerns being the foremost consideration.

II. CONCEPT OF OPERATIONS.

A. GENERAL.

1. The City-County has public works/engineering capabilities in several departments. There are also private constructions, engineering and supply resource organizations in the City-County. During a major emergency the activities and services normally provided by such firms and local government departments/agencies would continue with the emphasis shifting to emerging emergency tasks. The requirement for emergency public works and engineering services expands directly in proportion to the magnitude of the emergency. Nonessential activities may be curtailed or deferred.
2. Public Works is an integral part of the emergency response network providing emergency services to City-County residents. For many single site emergency situations, the function of emergency public works will be an extension of normal duties. However, during widespread, multiple-site emergencies public works resources and facilities may be in short supply.
3. Existing mutual aid agreements may augment resources and satisfy a temporary increase in local needs. If local capabilities are exceeded, support may be available from regional, state and federal public works groups.
4. Coordination between public works agencies is necessary to ensure emergency operational readiness. Each department having responsibility for emergency public works must develop Standard Operating Guides (SOGs) and resource listings to support this ESF.
5. A listing of available emergency public works resources is developed by this ESF Lead Agency and is kept in a separate Resource Inventory maintained by the Resource Management ESF # 7 in the EOC.
6. Butte – Silver Bow has will manage debris clearance, collection and disposal according to standard operation procedures within the road division to facilitate and coordinate the rapid and economic clearing and eventual removal and disposal of emergency generated debris.
7. Butte – Silver Bow EOC Infrastructure Services Branch, will have the primary responsibility for identifying Debris Storage and Reduction sites, obtaining agreements to use these sites and ensuring their continued availability.
8. Federal Assistance.

- a. The City-County *Debris Management Group Supervisor* will recommend that the EOC Manager request Federal assistance when the debris-generating event exceeds City-County's in-house debris clearing, removal, and disposal capabilities. The request will be submitted to the Operations Section Chief, who will then submit the request to the EOC Manager in the EOC. The EOC Manager will forward the request to the State, which will coordinate the request for a mission assignment with FEMA. Typically, when mission assigned by FEMA, the U.S. Army Corps of Engineers (USACE) will provide a liaison to the EOC when activated. This liaison will serve as an advisor to the EOC staff providing advice as needed and ensuring that the USACE is prepared to respond when tasked.
- b. The Corps of Engineers will alert a Debris Planning and Response Team (PRT) and the Advance Contracting Initiative (ACI) Contractor under contract for that area and have them ready to respond when a mission assignment is received. Once the Corps receives a mission assignment from FEMA, the management groups for both the PRT and ACI Contractor will be available to meet with the Debris Management Group Supervisor and State representatives to conduct contingency planning as required.
- c. USACE will coordinate with the Debris Management Coordination staff on the use of any pre-identified debris management sites and disposal sites, and identify/acquire other sites as required to accomplish the mission assignment.

9. State Assistance.

- a. The Montana Department of Transportation (MDOT) responsibilities include, but are not limited to, the following with respect to any and all debris management activities:
 - Provide a MDOT Debris Coordinator to the DMC staff to coordinate all MDOT personnel and equipment debris assignments
 - Provide personnel and equipment to initiate the clearing of emergency evacuation routes and access to critical facilities throughout the City/County (Phase I) as directed by the Debris Management Group Supervisor in coordination with the DOT Debris Coordinator located at the DMC.
 - Ensure that the MDOT representative at the DMC is provided all needed logistics support, including cell phone, transportation, etc.
 - Ensure that the MDOT Debris Coordinator keeps the Debris Management Group Supervisor informed of clearing progress and any problems encountered or expected.

10. NorthWestern Energy/Utilities/Power Company.

- a. Coordinate with the Butte – Silver Bow EOC Infrastructure Services Branch with regards to debris removal along electrical easements and rights-of-way to ensure that all lines are de-energized.
 - Provide a debris coordinator to the EOC.
 - Provide personnel and equipment for damage assessment.

B. TASKS AND RESPONSIBILITIES.

1. Pre-Emergency Tasks.

- a. Primary and support departments will coordinate with the Butte-Silver Bow Homeland Security and Emergency Management Agency to:
 - Maintain this Emergency Support Function (ESF).
 - Maintain inventories of resources and equipment.
 - Participate in tests and exercises.
 - Develop emergency action checklists and Standard Operating Procedures (SOPs).
 - Maintain pre-event contracts to support City-County and Public Works needs in an emergency.
 - Work with Transportation ESF # 1 to establish and maintain priorities for roadway corridors that will have priority in regard to debris removal and repair to allow access into damaged areas.
 - Prepare and test City/County portable pumps if needed to mitigate flooding event.
 - Pre-identify temporary debris storage sites.
 - Pre-identify means of transporting the debris if normal channels are unavailable.
 - Establish pre-event working relationships and understandings with neighboring jurisdictions and contractors.
 - Establish and maintain a comprehensive record keeping system for continuous updating and recording of debris numbers.

2. General Emergency Tasks.

- a. Primary and support agencies will:
 - Preposition resources and verify resource inventory in advance of an impending emergency.
 - Stage equipment resources to a safe location.
 - When notified of an emergency situation, send response teams/personnel, equipment, and vehicles to the emergency scene, staging area, or other location, as appropriate.

- Assist law enforcement and fire services personnel in saving lives to include: heavy rescue of people in collapsed buildings; clearing of roads and traffic control; construction of emergency access roads; communication support; use of vehicles for transportation, sheltering, and rescue personnel support; provide technical support for the inspection of critical facilities within the City-County.
- Public Works field emergency operations may include:
 - Flood control.
 - Assisting in the evacuation of people at risk in and around the emergency scene.
 - Assisting in search and rescue efforts.
 - Assisting damage assessment activities.
 - Providing emergency generators, fuel, lighting, and sanitation to support emergency responders at the emergency scene and at the Butte – Silver Bow EOC.
 - Assisting sanitation services.
 - Emergency clearance and removal of debris (including snow) for reconnaissance of the damaged areas and passage of emergency personnel and equipment for health and safety purposes.
 - Temporary construction of emergency access routes that include damaged streets, roads, bridges, waterways and any other facilities necessary for passage of rescue personnel.
 - Provide emergency traffic signs and signal service at pre-designated intersections.
 - Determination of the structural safety of emergency operations facilities.
 - Emergency demolition or stabilization of damaged structures and facilities designated as immediate hazards to the public health and safety, or as necessary to facilitate the execution of rescue operations.
 - Restore utilities and services normally provided by Public Works.
 - Assist in security measures and traffic control by providing traffic barricades.
 - Debris removal operations in areas affected by emergencies. – Assist Solid Waste crews.
- **Debris clearance:**
 - Provide personnel and equipment for debris management operations.
 - Assist with developing debris clearance Incident Action Plan.
 - Provide emergency road clearance and removal of debris for reconnaissance of the damaged areas and passage of emergency personnel and equipment for health and safety purposes.

- Support debris removal operations in areas affected by emergencies.
- **Administer and manage contracted services.**

3. **Specific Emergency Concepts and Responsibilities.**

a. **Public Works Department is the primary department for ESF # 3 Public Works and Engineering:**

- Respond to requests for repair work; identify required support agencies; begin mobilization of resources and personnel and prepare to activate.
- Coordination of support agencies in directing and prioritizing resources, needs, and services to accomplish debris removal, access restoration, damage assessment, as well as other areas of infrastructure which may have been adversely impacted.
- Maintain communications with other ESF primary agencies, to ensure mutual assistance and an organized working relationship.
- Maintain records of cost and expenditures to accomplish this ESF and forward them to the EOC Finance/Administration Section Chief.

b. **Public Works Director, Operations Manager/Utility Division, Operations Manager/Services Division, and the Central Services Manager:**

- Respond to requests for resources and personnel (architects and engineers, building maintenance) and prepare to activate.
- Record costs and expenditures and forward them to this ESF's Group Supervisor.

c. **Fire Department:**

- Provide vehicles and personnel for emergency use.
- Assist with road and debris clearance. Engine crews can assist with:
 - Road clearing with chainsaws, winch and come-a-longs.
 - Flood control with portable pumps and floating pumps.
 - Staff for moving equipment and driving vehicles.
- Respond to fire and other medical emergencies at debris management sites.
- Respond to request to investigate and manage hazardous materials incidents.
- Approve debris management burn sites in accordance with appropriate local requirements to ensure safe burning.

- Issue bans on open burning based upon assessment of local conditions and ensure dissemination of information to the public.
 - Supervise burn sites in accordance with all appropriate local requirements to ensure safe burning, subject to amendments by the Health Department and/or Fire Marshal.
 - Record costs and expenditures and forward them to this ESF's Group Supervisor.
- d. **Operation Manager/ Services Division:**
- Assure the needed facilities and internal systems and utility infrastructure remains functional.
 - Provide technical support, maintenance and repair of structural systems and utility infrastructure.
 - Record costs and expenditures and forward them to this ESF's Group Supervisor.
- e. **Operation Manager/Utility Division:**
- Support debris removal operations in areas affected by emergencies.
 - Provide light duty construction equipment, supplies and personnel.
 - Provide coordinated response with Debris Management Group to facilitate clearing of roads so utility services are restored quickly.
- f. **Geographic Information Systems:**
- Provide situation mapping analysis and mapping support using GIS and other digital products.
 - Record costs and expenditures and forward them to this ESF's Group Supervisor.
- g. **Engineer Technician/Utility Division:**
- Respond to requests for resources and GIS personnel, and prepare to activate.
 - Record costs and expenditures and forward them to this ESF's Group Supervisor.
- h. **Public Health Department:**
- Assist in monitoring debris management site operations and closeout activities.
 - Assist as necessary on all environmental and health issues.
 - Regulate the burning at debris management sites.

- Record costs and expenditures and forward them to this ESF's Group Supervisor.

i. **Public Works Director, Operation Manager/Utility Division, Operation Manager/Services Division, and Road Supervisor:**

- Assist with developing debris clearance Incident Action Plan.
- Recommend disposal sites for debris.
- Support debris removal operations in areas affected by emergencies.
- Assist with identifying and mapping of debris locations, blocked roads, open roads, debris staging areas and disposal sites.
- Record costs and expenditures and forward them to this ESF's Group Supervisor.

j. **Law Enforcement:**

- Identify locations where debris clearance and management is necessary.
- Provide security at debris clearing and dumping sites.
- Provide security at public works facilities.
- Assist in monitoring illegal dumping activities.
- Assist in monitoring debris management sites to ensure compliance with local traffic regulations.
- Provide traffic ingress and egress control at emergency work sites.
- Coordinate traffic control at all loading sites and at entrances to and from debris management sites
- Coordinate utilization of volunteers for debris removal.
- Record costs and expenditures and forward them to this ESF's Group Supervisor.

k. **Maintenance Superintendent:**

- Provide radio system infrastructure support.
- Provide repair and maintenance of radio equipment.
- Record costs and expenditures and forward them to this ESF's Group Supervisor.

l. **Parks and Recreation:**

- Assist in debris removal and restoring access in public rights of way priority corridors.
- Provide temporary debris staging sites.

- Respond to requests for equipment and personnel and prepare to activate.
- Record costs and expenditures and forward them to this ESF's Group Supervisor.

m. **Public Works Director:**

- Coordinate the engineering evaluation and repairs of electrical infrastructure.
- Respond to requests for resources and engineering personnel and prepare to activate.

n. **Public Works Director, Operation Manager/Utility Division:**

- Coordinate debris removal and disposal requirement at facilities with the Debris Management Group Supervisor.

C. ROLE OF BUTTE-SILVER BOW EOC.

1. When the EOC is activated, the EOC Manager may activate the Public Works and Engineering ESF # 3 as the Public Works Group to coordinate all public works activities. The Public Works Group is responsible for implementing policy and coordinating all available City-County personnel, equipment and material available to carry out requirements for public works services, debris clearance, maintenance and repair of local roadways, and to assist in damage survey. The Public Works Group will make requests through the City-County Emergency Operations Center Manager to the State ECC for additional resources when all local public works resources have been exhausted.
2. Public Works personnel will be alerted according to prescribed departmental policy. The operational priorities for personnel will be assigned by the Public Works Group. All personnel will report to their pre-designated locations unless otherwise directed by their supervisor at the time they are notified of the emergency. Pre-designation of duties and responsibilities will facilitate a reduction in response time.
3. Public Works will establish and maintain lines of communication between the EOC and field forces during major response operations to facilitate coordination of activities and resources.
4. Public Works and Engineering likely tasks are found in the City-County box on the tab page of this section.

D. LIFE SAFETY ASSESSMENT.

An initial EOC priority is to gather as much intelligence about the extent of damage as soon as possible. Public Works personnel constitute a large presence in the field and are the eyes and ears of the EOC. Whenever they identify an unusual situation, they should report the need for rescue, the numbers of dead or injured persons encountered, damage to buildings or public facilities such as roads and bridges, and utilities. These reports will be compiled by the department dispatcher and immediately communicated to the EOC.

E. EVACUATION.

Assist evacuation activities as requested and/or assigned in the Butte-Silver Bow Evacuation Strategy.

F. FIELD OPERATIONS.

1. The first priority will be to assist the law enforcement and fire services personnel in saving lives. This may include providing support to heavy rescue operations of people in collapsed buildings; clearing of roads and traffic control; construction of emergency access roads; communication support; the use of vehicles for transportation, sheltering, and rescue personnel support, and/or the inspection of critical facilities such as hospitals, designated shelters and emergency operations centers.
2. When operating at an incident scene with law enforcement or fire units, always check in with the incident command post or staging area, receive an assignment and report to the designated supervisor to perform the tasks.
3. Law enforcement and fire services agencies will establish inner and outer perimeters to secure an emergency scene. A strict policy of restricted access to the emergency area will be rigidly enforced to ensure the safety and wellbeing of the community. All movement into and out of the area will be controlled and must be authorized through the established incident command post.
4. Public Works may be called on to provide barricades and other access control measures to ensure security for essential facilities and damaged infrastructure, if required, and law enforcement officers will assist in restricting access to unsafe buildings or areas.
5. Hazardous Materials Response:
 - a. Public Works units responding to assist at a hazardous material incident will ensure that they are fully integrated into the incident command structure, have a full understanding of the Incident Commander's assessment of the situation and that they take full and proper

precautions to protect themselves as directed by the assigned supervisor.

- b. Only personnel that are properly trained and equipped should be deployed to a hazardous material incident.

III. ATTACHMENTS AND REFERENCES.

A. ATTACHMENTS.

1. Public Works (ESF # 3) Checklist.

B. REFERENCES.

1. Butte – Silver Bow Debris Management Plan (TBD)
2. Butte – Silver Bow Snow Plan.

C. PROVISIO.

This support annex has been prepared in accordance with the standards of the National Incident Management System and other Federal and State requirements and standards for emergency plans applicable as of the date of the plan's preparation.

The plan provides guidance only; it is intended for use in further development for response capabilities, implementation of training and exercises, and defining the general approach to incident response. The actual response to an incident is dependent on:

1. The specific conditions of the incident, including incident type, geographic extent, severity, timing, and duration;
2. The availability of resources for response at the time of the incident;
3. Decisions of Incident Commanders and political leadership; and
4. Actions taken by neighboring jurisdictions, the State, and the Federal Government.

These and other factors may result in unforeseen circumstances, prevent the implementation of plan components, or require actions that are significantly different from those described in the plan.

Attachment 1

PUBLIC WORKS (ESF # 3) CHECKLIST

<p align="center">Pre-Emergency</p>	<p>Coordinate with the BSBOEM to:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Maintain this Emergency Support Function (ESF). <input type="checkbox"/> Maintain inventories of resources and equipment. <input type="checkbox"/> Participate in tests and exercises. <input type="checkbox"/> Develop emergency action checklists and Standard Operating Procedures (SOPs). <input type="checkbox"/> Maintain pre-event contracts to support City-County and Public Works needs in an emergency. <input type="checkbox"/> Work with ESF # 1 to establish and maintain priorities for roadway corridors that will have priority in regard to debris removal and repair to allow access into damaged areas. <input type="checkbox"/> Develop and maintain a Debris Management Plan; Coordinate development of the plan with Public Works & Engineering ESF # 3. Plan content should include strategies for: <ul style="list-style-type: none"> - Debris clearing. - Debris collection. - Identification of temporary storage and areas. - Recycling. - Disposal. - Hazardous waste identification and handling. - Administration. - Dissemination of information to the public. <input type="checkbox"/> Maintain mutual aid agreements. <p>Debris Management</p> <ul style="list-style-type: none"> <input type="checkbox"/> Implement the City-County Debris Management Plan; Coordinate debris operations.
<p align="center">Emergency</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Preposition resources and verify resource inventory in advance of an impending emergency. <ul style="list-style-type: none"> - Stage equipment resources to a safe location. <input type="checkbox"/> When notified of an emergency situation, send response teams/personnel, equipment, and vehicles to the emergency scene, staging area, or other location, as appropriate. <input type="checkbox"/> Assist law enforcement and fire services personnel in saving lives to include: heavy rescue of people in collapsed buildings; clearing of roads and traffic control; construction of emergency access roads; communication support; use of vehicles for transportation, sheltering, and rescue personnel support, and/or provide technical support for the inspection of critical facilities within the City-County. <input type="checkbox"/> Public Works field emergency operations may include: <ul style="list-style-type: none"> - Flood control.

	<ul style="list-style-type: none"> - Assisting in the evacuation of people at risk in and around the emergency scene. - Assisting in search and rescue efforts. - Assisting damage assessment activities. - Providing emergency generators, fuel, lighting, and sanitation to support emergency responders at the emergency scene and at the Butte – Silver Bow EOC. - Assisting sanitation services. - Temporary construction of emergency access routes that include damaged streets, roads, bridges, waterways and any other facilities necessary for passage of rescue personnel. - Provide emergency traffic signs and signal service at pre-designated intersections. - Determination of the structural safety of emergency operations facilities. - Emergency demolition or stabilization of damaged structures and facilities designated as immediate hazards to the public health and safety, or as necessary to facilitate the execution of rescue operations. - Restore utilities and services normally provided by Public Works. - Assist in security measures and traffic control by providing traffic barricades. <ul style="list-style-type: none"> <input type="checkbox"/> When notified, report to the Butte – Silver Bow EOC. <input type="checkbox"/> Administer and manage contracted services. <p>Debris Management</p> <ul style="list-style-type: none"> <input type="checkbox"/> Coordinate emergency road clearance and removal of debris for reconnaissance of the damaged areas and passage of emergency personnel and equipment for health and safety purposes.
<p style="text-align: center;">Emergency Operations Center (EOC)</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Staff the Public Works Group within the Butte – Silver Bow EOC Operations Section Infrastructure Services Branch. <input type="checkbox"/> Ensure operation of Public Works dispatch and reporting systems. <input type="checkbox"/> Determine condition, status of City-County Public Works resources. <input type="checkbox"/> Identify incident sites requiring Public Works services. <input type="checkbox"/> Determine present and future need for Public Works resources to support: <ul style="list-style-type: none"> - Search and rescue. - Heavy rescue. - Damage assessment. - Road, bridge repair. - Debris clearance. - Road clearance. - Flood control.

**Emergency
Operations Center
(EOC) Cont.**

- Traffic control.
- Sanitation services.
- Repair to utility systems.
- Obtain and coordinate public works response teams/personnel, equipment, and vehicles to the emergency scene, staging area, or other location(s), as appropriate.
- Sources for additional resources can include:
 - Mutual aid.
 - State and federal resources.
 - Private companies, contractors and NGOs.
- Track resources deployed for emergency response.
- If possible, provide mutual aid as requested by State EOC.

- Develop priorities and coordinate with utility companies the restoration of utilities to critical and essential facilities.
- Coordinate the removal of debris with State, and federal environmental officials.
- Provide logistical support for demolition operations.
- Appoint a debris management coordinator; Implement the City County's Debris Management Plan.
- Contact the City-County's debris management contractor; Activate the City-County's debris management contract.
- Coordinate emergency road clearance and removal of debris for reconnaissance of the damaged areas and passage of emergency personnel and equipment for health and safety purposes.
- Identify incident sites requiring debris clearance and management:
 - Public rights-of-way.
 - Public property.
 - Private property.
- Recommend disposal sites for debris:
 - Temporary staging areas and debris reduction sites.
- Coordinate debris collection and hauling:
 - Coordinate debris removal operations in areas affected by emergencies.
 - Coordinate or assist in removal of debris from private property, within the policy limits established by the Chief Executive.

- Coordinate the removal of debris with state, and federal environmental officials.

<p style="text-align: center;">Emergency Operations Center (EOC) Cont.</p>	<ul style="list-style-type: none"> ❑ Coordinate debris operation. Debris from residential and commercial properties will be separated into four general groups: <ul style="list-style-type: none"> - Raw garbage, rubbish garbage, yard waste and construction/building rubble. - Separate hazardous materials and hazardous waste from debris to the extent possible. ❑ Coordinate debris disposal. <ul style="list-style-type: none"> - Identify debris disposal issues, i.e. hazardous materials. Secure necessary environmental permits and legal clearances. ❑ Determine methods of disposal as appropriate: <ul style="list-style-type: none"> - Open pit burning and burning by incineration methods. - Mulching and chipping clean horticultural waste. - Hauling mulched or chipped waste out of the City-County. - Mixing mulch or chipped clean waste with soil to improve agricultural productivity. - Reuse/recycle for aluminum, plastic and horticultural waste to the extent possible. <p style="text-align: center;">Debris Management</p> <ul style="list-style-type: none"> ❑ Coordinate the removal of debris with state, and federal environmental officials.
<p style="text-align: center;">Recovery Actions</p>	<ul style="list-style-type: none"> ❑ Provide engineers, skilled personnel, construction workers, etc., with construction equipment and materials to assist in recovery activities. ❑ Review recovery actions and develop strategies. ❑ Coordinate with state or federal agencies as needed to accomplish damage assessments and repairs. ❑ Maintain access to current City-County drainage maps and plans at the Butte – Silver Bow EOC. <p style="text-align: center;">Debris Management</p> <ul style="list-style-type: none"> ❑ Contact the City – County debris management contractor; Activate the City – County debris management contract; Monitor contractor services.

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