

# **Emergency Support Function (ESF) #3 Public Works and Engineering**

## **Primary Agency/ESF Coordinator**

City of Rolla Public Works Department

## **Support Agencies:**

City of Rolla Emergency Management Agency  
Phelps County Health Department  
City of Rolla Building Inspection  
City of Rolla Police Department

## **I. PURPOSE**

Emergency Support Function (ESF) #3 Public Works and Engineering coordinates the capabilities and resources to facilitate the delivery of services, technical assistance, engineering expertise, construction management, and other support to prepare for, respond to, and/or recover from a disaster or an incident.

## **II. SCOPE**

ESF #3 is structured to provide public works and engineering-related support for the changing requirements of incident management to include preparedness, response, recovery, and mitigation actions. Activities within the scope of this function include:

- Infrastructure protection and emergency repair
- Critical infrastructure reestablishment
- Engineering services and construction management
- Emergency contracting support for lifesaving and life-sustaining services
- Debris removal and disposal

## **III. SITUATION AND PLANNING ASSUMPTIONS**

### **A. Situation**

1. The Phelps County Public Works Department maintains the roads and bridges in the unincorporated areas of the county. Resources include: personnel, heavy equipment, and materials.
2. The City of Rolla Public Works Department maintains the municipal streets and bridges in their city limits. Resources include: personnel, heavy equipment, and materials.
3. Equipment inventories for the county and city public works departments are

maintained by each department.

4. The Missouri Structural Assessment and Visual Evaluation (SAVE) Coalition is a group of volunteer engineers, architects, building inspectors, and other trained professionals that assists SEMA with building damage inspections. After a disaster, SAVE volunteers are trained to move quickly to determine the safety of buildings.

## **B. Planning Assumptions**

1. The timely and coordinated deployment of public works and engineering resources will have a direct impact on the ability of other emergency services agencies to perform their tasks.
2. Local private sector public works and engineering resources may be used to supplement public resources.
3. Both public and private sector public works and engineering resources may be severely limited in a major disaster and will have to be assigned on a priority basis.
4. State and Federal public works and engineering resources will respond when called upon, but their ability to react quickly may be limited.

## **IV. CONCEPT OF OPERATIONS**

### **A. General**

1. In a disaster, buildings and structures may be destroyed or severely damaged. Homes, public buildings, bridges, and other facilities may need to be reinforced or demolished to ensure safety. Public utilities, including water and wastewater systems, may be damaged and partially or fully inoperable. Access to the disaster areas may be dependent upon debris clearance and roadway repairs. Debris clearance and emergency road repairs will be given top priority to support immediate lifesaving emergency response activities.
2. Prompt assessment of the disaster area is required to determine critical response times and potential workloads. Early damage assessment must be made rapidly and be general in nature. Following an incident, a multitude of independent damage assessment activities will be conducted by a variety of organizations including County/City Damage Assessment Teams, Insurance Companies, SEMA, American Red Cross, Federal Emergency Management, and Utility Companies.
3. Local private sector public works and engineering resources may be used to supplement public resources.
4. Route clearance and bridge inspection refers to the safety of roads and bridges following a disaster. This includes the physical removal of debris on roadways,

assistance on railroads and airstrips, etc. (as requested), critical for emergency vehicle passage, as well as, the inspection of bridges to insure they may continue to be used and have not suffered severe damage as a result of a particular event. Assistance to road crews is provided through this mission.

5. Debris removal refers to the process that may involve waste collection, separation, hauling, landfill disposal, incinerations, and recycling. Debris must be removed and properly managed and includes vegetative debris (e.g., trees, limbs, shrubs), municipal solid waste (e.g., common household garbage, and personal belongings), construction and demolition debris (in some instances, entire residential structures and all their contents), vehicles (e.g., cars, trucks, and boats), food waste, white goods (e.g., refrigerators, freezers, air conditioners), and household hazardous waste (e.g., cleaning agents, pesticides, pool chemicals).
6. The departments identified as primary and support for ESF #3 will inspect city buildings for structural, electrical, gas, plumbing, and mechanical damage following a disaster situation. They will ensure that any repairs or rebuilding that occurs following the incident will comply with the city building codes, zoning, land-use regulations, and comprehensive plan.
7. To minimize threats to public health and the environment, the City of Rolla Public Works Department will serve as liaison with the Missouri Department of Natural Resources/Environmental Quality and City Attorney to secure the necessary emergency environmental waivers and legal clearances that would be needed to manage and dispose of emergency debris and materials from demolition activities.
8. The Phelps County Health Department may assist with assessments related to health hazards that may be caused by the disrupted disposal of sanitary wastes.
9. The ESF #3 Coordinator will be responsible for deploying damage assessment teams, consolidating damage data, and compiling reports. Information will be coordinated with the City of Rolla Emergency Management Agency.
10. An initial damage assessment report will be completed by the City of Rolla Emergency Management Agency and submitted to SEMA within 72 hours of the event, outlining the severity of the problems and the determination of need for further assistance. A Federal/State supported preliminary damage assessment precedes delivery of a Presidential Disaster Declaration.

## **B. Actions by Operational Timeframe**

### **1. Preparedness**

- a. Maintain this ESF Annex, as well as, supporting guidelines and operating procedures.
- b. Review all portions of the EOP to ensure proper coordination of public works and engineering activities.

- c. Ensure public works and engineering personnel receive appropriate emergency operations training.
- d. Establish contact with private resources that could provide support during an emergency.
- e. Participate in emergency training and exercises.

## **2. Response**

- a. Provide public works and engineering support on a priority basis as determined by the EOC and the Incident Commander(s).
- b. Provide representative to the EOC as requested.
- c. Inspect damage to streets, bridges, and public buildings and provide this information to the Damage Assessment Coordinator.
- d. Support decontamination as necessary.
- e. Clear roads to facilitate emergency operations.
- f. Close roads and construct barricades as directed.
- g. Make recommendations on priority of repairs.
- h. Request outside assistance from surrounding jurisdictions and the private sector as required.
- i. Assist in emergency operations as described in ESF #9 Search and Rescue.
- j. Conduct other specific response

## **3. Recovery**

- a. Continue to repair infrastructure and buildings on a priority basis.
- b. Continue all activities in coordination with the EOC based on the requirements of the incident.
- c. Participate in after-action reports and critiques.
- d. Make necessary changes in this ESF Annex and supporting plans and procedures.
- e. Recommend changes in planning, zoning, and building codes to prevent or lessen the effect of future disasters.

## **4. Mitigation**

Participate in hazard identification process and identify and correct vulnerabilities in the public works system.

# **V. ROLES AND RESPONSIBILITIES**

## **A. Primary Agency/ESF #9 Coordinator** City of Rolla Public Works Department

- a. Provide a representative to the EOC to coordinate ESF #3 activities.
- b. Work with the other members of the EOC team to set priorities and assign resources.
- c. Deploy public works and engineering resources to assist first responders as required by the event.
- d. Assess the structural integrity of critical infrastructure.

- e. Repair roads, streets, public buildings, and infrastructure as required.
- f. Ensure appropriate protective measures can be implemented to protect critical infrastructure.
- g. Work with local contractors to establish and implement procedures to stabilize and demolish publicly owned buildings.
- h. Coordinate debris management operations.

**B. Support Agencies**

1. City of Rolla Emergency Management Agency

Complete initial damage assessment report and submit to SEMA within 72 hours of the event, outlining the severity of the problems and the determination of need for further assistance.

2. Phelps County Health Department

- a. Work with the ESF #3 Coordinator to ensure air quality near debris disposal operations is properly monitored.
- b. Work with the Environmental Protection Agency to augment local air quality monitoring resources.

3. City of Rolla Building Inspection

- a. Assist in determining priorities for inspection of critical facilities.
- b. Determine whether buildings are habitable and usable for their intended purpose.
- c. Inspect public buildings and potentially unsafe commercial and residential properties.
- d. Issue permits to facilitate essential repairs.
- e. Coordinate the demolition of private, residential structures.

4. City of Rolla Police Department

- a. Provide personnel and resources to assist with traffic control.
- b. Provide security for critical infrastructure.

**VI. CONTINUITY OF GOVERNMENT**

Lines of Succession for ESF #3 Public Works and Engineering:

- 1. Director, City of Rolla Public Works Department
- 2.
- 3.

**Suggested Appendices**

Appendix 1 – \* \_\_\_\_\_ \* County Debris Management Plan

Appendix 2 – \* \_\_\_\_\_ \* County/City Public Works Resources

Appendix 2 to Annex I

**PUBLIC WORKS RESOURCES**

A. Rolla Public Works Services

Rolla Municipal Utilities (water & electricity).....	364-1572
Sewer.....	364-8659
Streets.....	364-8659
Parks & Recreation .....	364-4278
Sanitation.....	364-6693

B. Phelps County Road and Bridge Department

1. Districts - The County Road and Bridge Department is divided into two districts: First District and Second District. These Districts are responsible for maintaining the roads and bridges in the unincorporated areas of Phelps County.

First District .....	364-3864
Second District.....	435-9228

2. Equipment - Each Road and Bridge district has a maintenance shed. All public works equipment is kept at these two locations. An equipment inventory is kept on file with each district as well as with the County Clerk's Office.
3. Communications - Most all the public works vehicles are radio equipped. A radio base station is located at each maintenance shed.
4. Personnel - Call-up procedures will be as discussed in Appendix 3 to the Basic Plan and Appendix 2 to Annex A.

C. Public Water Supply Districts (PWSD)

Phelps County Rural Water Supply District No. 1 .....	435-6720
Phelps County Rural Water Supply District No. 2 .....	364-8790
Phelps County Rural Water Supply District No. 4 .....	364-1660

D. St. James Public Works Services

Municipal Utilities .....	265-7011
Water/Sewer Office, 200 N. Bourbeuse .....	265-7013
Sewage Treatment Plant, W. Springfield.....	265-3865
Streets/Sanitation, E. Springfield.....	265-8713
Parks & Recreation, W. Springfield .....	265-6939

- E. Newburg Public Works Services - 2<sup>nd</sup> & Main..... 762-2315  
Water/Sewer  
Streets

- F. Doolittle Public Works Services - 380 Eisenhower..... 762-2601  
     Water/Sewer  
     Streets
  
- G. Edgar Spring Public Works Services - 555 Broadway ..... 435-6334  
     Water/Sewer  
     Streets
  
- H. Electric
  - 1. City of Rolla Municipal Utilities ..... 364-1572
  - 2. AmerenUE  
     Customer Service ..... 800-552-7583
  - 3. Intercounty Electric..... 368-3010
  - 4. Show-Me Power Corp..... 417-468-2615
  - 5. Gascoyage Electric ..... 759-7146



I. Telephone

1. Verizon..... 1-800-483-3737
2. Sprint..... 341-0420
3. Southwestern Bell ..... 364-4617
4. McLeod USA ..... 1-800-333-4059
5. AT & T..... 1-800-222-3000
6. Fidelity Communications..... 426-5000
7. Century Tel ..... 1-800-824-2877

J. Sanitation Services (Trash Hauling)

1. City of Rolla Sanitation ..... 364-6693
2. Lane Sanitation ..... 759-2626
3. City of St. James Streets/Sanitation, E. Springfield..... 265-8713
4. Waste Corporation of America - Rolla ..... 762-2149
5. County Trash Service - Rolla..... 341-2190