

ANNEX G (Engineering and Public Works) to the Trumbull County Emergency Operations Plan

ENGINEERING, UTILITY AND PUBLIC WORKS

I. PURPOSE

The purpose of this annex is to outline the duties and responsibilities of engineering, utility and public work segments of the county in the event of a major emergency. Production of this plan will also enable the appropriate agencies to provide essential public works services during a disaster and will reduce the impact of the emergency.

II. SITUATION AND ASSUMPTIONS

A. Situation

1. The Trumbull County Engineer's Office is located at 650 North River Road NW, Warren Ohio 44483.
2. Most hazardous events which may affect the county have the potential for causing damage to property. Have the necessary contact information is vital for the response and recovery operations to public roads and utilities.
3. Highway/Bridge Maintenance Responsibilities:
 - a. Interstate highways and bridges are maintained by ODOT. State highways and bridges outside of city/village corporation limits are maintained by ODOT. The County Engineer maintains all roads and bridges on the county highway system and some bridges inside cities, villages, and on state routes. Township, village, and city roads are maintained within their own respective jurisdiction.
4. The following state-level public works departments have offices in Summit County and may assist in the event of an emergency:
 - a. Ohio Department of Transportation, Highway Maintenance. ***(The only way ODOT can assist locals off of State, US and Interstate routes is with a Governor's emergency declaration. This is initiated at the county local level by the county EMA. In the time of an emergency, ODOT can, will, and many times help, but this procedure has to be followed).**
 - b. Division of Forestry, ODNR (Parks).
 - c. ODNR Division of Waterways, Canal Operations.

- d. City, Village, and Township road departments and public utilities can be found in Annex R under Engineers/Road Departments and Public Utilities
5. Many private contractors and businesses have in the past and will continue in the future to provide additional support during emergencies for engineering/utility and public works activities.
6. In an emergency there is frequently a need for manpower and equipment to remove obstructions or debris from roads and at government facilities and for restitution of essential utilities.
7. The following electric companies serve Trumbull County:
 - a. Ohio Edison (888) 544-4877
 - b. Hubbard Electric Office (330) 534-3054
8. The following gas company serves Trumbull County:
 - a. Columbia Gas of Ohio Inc. (800) 344-4077
 - b. Eastern Natural Gas (330) 772-3500
 - c. Dominion Gas Company (800)-362-7557
9. The following water departments serve Trumbull County:
 - a. Niles Water Dept. (330) 544-9000 (Ext. 182)
 - b. Warren City Water Dept. (330) 841-2531
 - c. Girard Water Dept. (330) 545-5857
 - d. Trumbull County Sewer Billing (330) 675-2475
 - e. Lordstown Water Dept. (330) 824-2481
 - f. Ohio American Water (800) 673-5999
 - g. Hubbard Water Dept. (330) 534-3636
 - h. Cortland City Water Billing (330) 638-0482
10. The following telephone companies serve Trumbull County:
 - a. Sprint (844) 382-3312
 - b. Verizon (800) 922-0204
 - c. AT&T (800) 331-0500

B. Assumptions

1. All engineering and public works equipment and personnel would be available to cope with any anticipated disaster.
2. Without assistance, the engineering and public works depts. may not have sufficient resources to cope with a disaster.

3. Local contractors have enough resources to backup engineering and public works recovery efforts in any foreseen disaster situation.
4. Public works departments have a limited but immediate capability to provide emergency services for debris removal, restitution of essential utilities and shelter upgrading.
5. All companies providing utility services to Trumbull County should inform the (TCEMA) Director or their designee of any disruptions in supplies; whether caused by physical disruption and distribution systems, unexpected operational failure of such systems, or unusual economic or international political events.

III. CONCEPT OF OPERATIONS

A. General

1. Each area of concern will have a coordinator designated by the public organization and responsible for implementing that portion to this annex.
 2. Emergency operation will be designated to the appropriate personnel trained in their field. The operations will be an augmentation to their normal duties.
 3. Close coordination between the engineering and public utilities business will be necessary for an operation response for debris removal, structural repair, and sewage and water treatment. Operation should use the following for a county wide recovery.
 4. For more information concerning County roads and evacuation, consult Annex J.
- B. In non-emergency periods, the role of public works in the county or within municipalities is confined to trash collection, landfill operations, building, ground and street maintenance, water and sewage utility service, equipment operation and maintenance.
- C. During emergencies, the public works function expands and coordination of public works emergency operations is essential. Public works arranges for support services for emergency response agencies, shelter operations and the Emergency Operations Center and coordinates with the private sector for additional resources to supplement public works.
- D. Each municipality will serve its own community within the scope of the public works activities that are provided to the citizens. When their capabilities are

exhausted they can coordinate with other municipalities where there are existing mutual aid agreements or they can utilize the County Emergency Operation Center to assist in acquiring assistance.

E. Trumbull County will work with road and street departments to clear debris and maintain road habitable to vehicles. See annex V for debris removal management.

F. Phases of Emergency Management

1. Mitigation

- a. Train personnel in emergency procedures.
- b. Develop laws that protect the integrity of gas, electric and water supplies.
- c. Identify vulnerability in electric, gas, water, maintenance and disposal systems and develop remedies.
- d. Develop mutual aid agreements with neighboring jurisdictions for engineering, sanitation and utility support.
- e. Develop and update maps of city streets, water and sewer lines and utility service areas.
- f. Maintain and update listings of local private contractors who can provide support during emergencies. Acquaint them with emergency plans and procedures.
- g. Prepare and assist Trumbull County EMA Director in updating the Trumbull County Resource Manual, which identifies source, location and availability of earth moving equipment, dump trucks, road graders, fuels, etc. that could be used to support disaster response and recovery.
- h. Participate in emergency exercises.
- i. Work with planning commission to ensure that new constructions do not increase hazard threat.
- j. Work with legislative bodies to improve building codes.

2. Preparedness

- a. Ensure that storm sewers are in good repair.

- b. Ensure that debris removal equipment is in good repair and that barrier and roadblock materials are available.
- c. Train response staff and volunteers to perform emergency functions.
- d. Review and update all utility and public works maps of jurisdiction.
- e. Develop prioritized listing for restoration of utilities.
- f. Maintain notification and recall rosters that include a communications system to implement call down for personnel assigned to response teams, dispatch points and the EOC.

3. Response

- a. Prioritize detection and repair of leaking gas lines.
- b. Restore utilities to critical and essential facilities.
- c. Provide Engineering, Utility, and Public Works Coordinator to the EOC, who will advise decision makers and coordinate response efforts among departments and agencies.
- d. Maintain communications between EOC and engineering, utility, and public works personnel at site.
- e. Provide back-up electrical power to the EOC as requested by the Trumbull County Emergency Management Director.
- f. Coordinate with the Health Department for the provision of potable water.
- g. Coordinate with water and sewer departments, the Health Departments and the EPA to ensure the integrity of water supplies and sewage systems from the effects of hazardous materials.
- h. Provide sanitation services throughout emergency.
- i. Support emergency communications until telephone service is restored.

- j. Inspect emergency facilities, public shelters and reception centers before they are used by the public after an earthquake.
- k. Clear debris and open roads for traffic.
- l. Determine the safety of evacuation routes, and bridges in an earthquake environment.
- m. Provide emergency repair of water and sewer systems.
- n. Barricade damage areas.
- o. Contact private contractors for additional assistance, as necessary.
- p. Assist in search and rescue operations, as directed.

4. Recovery

- a. Support cleanup and recovery operations during disaster events.
- b. Provide damage estimates as requested by the Trumbull County Emergency Management Director.
- c. Support decontamination activities.
- d. Coordinate utility repair with public and private providers and the PUCO (Public Utilities Commission of Ohio, 1-614-644-8976).
- e. Drain flooded areas.
- f. Inspect, designate and demolish hazardous structures.

IV. ORGANIZATION AND ASSIGNMENT OF RESPONSIBILITIES

A. Organization

1. Trumbull County

- a. The County Engineer may become the Engineering, Utilities and Public Works Supervisor in the EOC, and coordinate engineering, utilities and public works functions in the event of a major emergency in the county.

- b. In the event of a local or regional emergency, not countywide in scope, mutual aid in engineering and public works services may be requested/provided as available by parties to the Trumbull County Emergency Management Agreement.
- 2. Cities
 - a. The Cities of Cortland, Girard, Hubbard, Newton Falls, Niles, Warren, and their various Public Works Departments are included in this plan.
- 3. Villages
 - a. The Villages of Lordstown, McDonald, Orangeville, West Farmington, Yankee Lake, and their various Public Works Departments are included in this plan.
- 4. Townships
 - a. All the townships of Trumbull County are included in this plan.
- 5. Private Contractors and Volunteers
 - a. Private contractors and volunteers may be used to supplement engineering and public works staffs in a large-scale emergency/disaster.
- 6. Utility Companies
 - a. In the event of an incident/disaster, types of energy and utilities may pose as a problem that may be created as a result as an emergency.
 - i. These emergencies can include downed power lines, wastewater discharges, ruptured underground storage or tanks.
 - b. The agencies that will respond to the emergency will be identified as the emergency identifies itself.
 - i. Agencies can be identified and found in Annex R
 - c. The removal of debris and debris management will be directed by the county engineer. The county engineer department is to communicate with all agencies to provide an acceptable removal of debris caused by an emergency.

- d. During a power outage, many citizens may need electric power to sustain life. The electric companies provided in Annex R support this function. They are to provide power in the event of a catastrophic disaster.

B. Assignment of Responsibilities

It is each agency's responsibility during a hazardous materials incident to consult with the Incident Commander or Hazardous Materials Team Chief in addition to their following duties.

- 1. Engineering and Public Works Coordinator
 - a. Coordinate engineering and public works activities.
 - b. Train assigned response staff and volunteer augmenters to perform emergency functions.
 - c. Identify local private contractors who can provide backup support.
 - d. Develop and maintain resources lists.
 - e. Develop and maintain SOPs for engineering emergency response functions.
 - f. Participate in development and execution of emergency exercises.
 - g. Determine the safety of emergency operations facilities, public shelters, and Reception and Care Centers in a post-earthquake environment.
 - h. Determine the safety of evacuation routes in a post earthquake environment.
- 2. County Engineer's Department
 - a. Repair roads and bridges.
 - b. Maintain debris and garbage disposal operations.
 - c. Perform damage assessment operations.
 - d. Provide engineering services and advice.

- e. Assist in decontamination operations.
 - f. Participate in development & execution of emergency exercises.
 - g. Store and provide fuel for emergency vehicles.
 - h. Maintain contact with the Emergency Operations Center.
 - l. Update county map.
 - j. Clear debris in an emergency.
 - k. Place barricades where necessary.
 - l. Drain flooded areas.
 - m. Provide back-up electrical power to the Emergency Operations Center.
 - n. Protect the water supply and sewage system from the effects of hazardous material incidents.
 - o. Inspect, designate, and demolish hazardous structures.
3. City Engineer's Department
- a. Provide engineering services and advice.
 - b. Clear debris in an emergency.
 - c. Supervise repair and reconstruction of damaged facilities.
 - d. Drain flooded areas.
 - e. Coordinate with EPA and fire departments to protect water and sewer systems from the effects of hazardous material.
 - f. Inspect, designate, and demolish hazardous structures.
 - g. Support fire department in decontamination efforts.
 - h. Train staff and volunteers to perform emergency functions.
4. City Street Departments
- a. Repair and maintain streets.

- b. Perform damage assessment.
 - c. Clear debris in an emergency from roads and street and to make them passable to emergency vehicles.
 - d. Assist in decontamination work.
 - e. Provide equipment and operators as needed.
 - f. Drain flooded areas.
 - g. Maintain contact with EOC.
5. City Utilities Department
- a. Maintain storm sewers.
 - b. Maintain water pressure.
 - c. Provide potable water.
 - d. Coordinate with Health Department for water testing.
 - e. Decontaminate water system.
 - f. Assess damages.
 - g. Maintain contact with EOC.
6. Township Road Crews
- a. Maintain and repair township roads.
 - b. Clear debris in an emergency from roads and street and to make them passable to emergency vehicles
 - c. Provide equipment and operators as available.
 - d. Assess damages.
 - e. Maintain contact with Emergency Operations Center.
7. Sanitation Departments and Private Contracting Firms
- a. Maintain scheduled pick-up service.

- b. Obtain additional equipment if needed for debris removal.
 - c. Monitor sewage system during floods and hazardous material releases.
 - d. Provide temporary sanitary facilities as necessary.
8. City Water Departments
- a. Determine location and extent of any main breaks.
 - b. Coordinate with other departments of any main breaks.
 - c. Coordinate with utility companies for shutting down water lines and pumping out flooded areas.
 - d. Arrange for portable toilets and potable water supplies until water service is restored.
 - e. Coordinate utility start-up procedures with maintenance personnel and utility companies.
 - f. Coordinate with fire & police officials for evacuation at the site.
9. Water Purification Systems
- a. Purification companies will take steps to monitor water supply to see that hazardous materials are not introduced or put into the county water systems.
10. Electric Companies
- a. Determine extent of power failure and report information to Trumbull County Emergency Management Director.
 - b. Coordinate for support of emergency power at hospitals, rest homes and for individuals identified with emergency power needs.
 - c. Prevent unauthorized entry at the site.
 - d. Assist with fire prevention related to downed lines.
 - e. Activate in-house emergency response actions.

- f. Advise EOC to rely on alternate communications and warning systems until power is restored.
- g. Follow prioritization list for restoration of service.
- h. Coordinate shut-down and start-up procedures.

11. Gas Companies

- a. Notify fire departments of ruptured lines.
- b. Determine extent of risk area and coordinate with fire and law enforcement for evacuation if needed.
- c. Coordinate with other utilities and fire departments in shutting down systems that might present additional hazards.
- d. Ensure that site is ventilated to disperse accumulations of natural gas.
- e. Assist emergency forces in erecting barricades.
- f. Coordinate utility start-up procedures.

- C. Dispatch points for engineering, utility and public works personnel are located at the addresses listed in II. A. Situation at the beginning of this Annex.

In major emergencies, dispatch points can be moved to the EOC if the primary dispatch point is in a hazardous area. Contact Trumbull County Communications Officer for additional radios if required during the emergency.

V. DIRECTION AND CONTROL

- A. The County Engineer or his/her designee will relocate to the Emergency Operations Center during an emergency to advise decision makers and coordinate response efforts with utilities, municipal and village departments, state, federal, and volunteer organizations.

If the Engineer must be at the site of the emergency, he will appoint an employee to represent him/her at the EOC.

- B. Internal resources of all operating departments will be managed by individual departmental procedures and policies.

- C. Each responding organization will communicate directly with its own field forces, and in turn will keep the Emergency Operations Center informed of appropriate information (casualties, damage observations, evacuation status, radiation levels, chemical exposure, etc.) during emergency operations.

VI. CONTINUITY OF GOVERNMENT

The line of succession for the County Engineering and Public Works Coordinator shall be as follows:

1. Trumbull County Engineer
2. Trumbull County Chief Deputy Engineer
3. Assigned LEPC Member

VII. ADMINISTRATION AND LOGISTICS

A. Administration

1. Additional equipment or services needed to address the emergency by county/municipal responders will be requested through the Engineering, Utility and Public Works Coordinator in the activated EOC.
2. If the EOC is not activated, requests will be made to the County Commissioners (County organization) or the Executive Committee (County-wide organization).
3. The County Resource Manual lists equipment and services in the county. The Engineering, Utility and Public Works Coordinator will assist organizations in the cooperative use of equipment and personnel.
4. Areas needing assistance in utility restoration, debris removal, flood drainage, sanitation and related areas will be plotted on maps in the EOC and prioritized for response.
5. Engineering, utility and public works responders will provide information for the After Action Report as requested by the Trumbull County Emergency Management Director.
6. Requests for mutual-aid assistance from adjacent counties and assistance from the state and federal government for engineering,

utility and public works will be made through the County Engineer in the activated EOC.

B. Logistics

1. Responders will coordinate with each other for the placement of work crews, supply lines, staging areas and emergency command centers.
2. All responding organizations will provide regular reports to the EOC Coordinator on their location, activities and status at the site.
4. Logistical support for the dispatch points, including food, water, emergency power, fuel and lighting will be provided internally by the organizations. Support will be given by the EOC when internal resources are exhausted.

VIII. PLAN DEVELOPMENT AND MAINTENANCE

- A. The County Engineer in cooperation with the organization listed in this Annex and the Trumbull County Emergency Management Director is responsible for updating this annex based upon experience and on deficiencies identified through drills and exercises and changes in government structure and emergency organizations.
- B. The County Engineer in cooperation with the Trumbull County Emergency Management Director will prepare, coordinate, publish and distribute necessary changes and revisions to this annex.
- C. The County Emergency Management Director will forward all changes to the appropriate organizations.
- D. The County Emergency Management Director will coordinate with engineering, utility and public works organizations in Trumbull County for the development of standard operating procedures detailing their assigned responsibilities in emergencies.

IX. AUTHORITIES AND REFERENCES

A. **Authorities**

Not used, see Section IX. A. of the Basic Plan.

B. **References**

Not used, see Section IX. B. of the Basic Plan.

X. ADDUNDUMS

Tab 1 – Organizational Chart (Federal, State, and Local)

Appendix 1 – Critical Infrastructure Protection Plan

XI. AUTHENTICATION

Trumbull County Engineer

Trumbull County EMA Director

Tab 1 to Annex G (Engineering and Public Works)

ESF-3 – Engineering and Public Works		
<u>State Organizations</u>	<u>Federal Organizations (NRP-designated Agencies)</u>	<u>Local Organizations</u>
Department of Natural Resources	U.S. Army Corps of Engineers U.S. Coast Guard	
Adjutant General's Department, Ohio National Guard	U.S. Department of Defense	*
Department of Administrative Services ²	U.S. Department of Commerce	*
Ohio Department of Commerce, Division of Industrial Compliance	U.S. Department of Commerce	*
Ohio Department of Development Ohio Housing Finance Agency	Department of the Interior	County Engineers, County Commissioners
Ohio Department of Health	U.S. Department of Health & Human Services	Local Health Departments
Ohio Department of Rehabilitation and Correction	*	*
Ohio Department of Transportation	U.S. Department of Transportation	County Engineers and Municipal Street Departments
Ohio EMA	Department of Homeland Security/FEMA	County EMAs
Ohio Environmental Protection Agency	U.S. Environmental Protection Agency	Local Fire Departments HAZMAT Teams Local Health Departments
Public Utilities Commission of Ohio ³	Tennessee Valley Authority ⁴	*
*	U.S. Department of Labor	*
*	U.S. Nuclear Regulatory Commission	*
*	Department of Veterans Affairs	*

Critical Infrastructure Protection Plan

I. PURPOSE

Trumbull County developed this plan to assist owners and operators, both private and public sector, and local government representatives in protecting the region's critical infrastructures. The objective necessary to securing the economic and social well being of the region's citizens is needed for an effective and successful recovery. This plan describes a voluntary system for sharing information on vital infrastructures to assist with critical infrastructure protection decision making. The processes and methodologies listed in this Plan will bring together partners who have a common goal of ensuring that the County's way of life is not undermined by failures in infrastructure.

II. SITUATION AND ASSUMPTION

A. Situation

1. This Plan is not a response plan. Its overall goal is to ensure that critical infrastructure assets are protected, prior to any event that may affect them, in an effort to lessen any effects from a natural or human caused hazard or prevent human caused hazards in the first place. It does not, therefore, address how to respond when such assets are attacked, or how to bring them back on line. Nevertheless, the outcomes of this protection planning process may help to inform first responders and other stakeholders in the County in developing such response and recovery plans.

B. Assumption

1. This Plan is not intended for use in response to real time threat information. As a strategic prevention and protection plan, it is designed to achieve the long-term vulnerability reduction of the County's most critical infrastructures without knowledge of specific threats. Tactical protective activities are the responsibility of a variety of law enforcement and intelligence organizations. This Trumbull County Plan proposes an overall threat neutral approach to Critical Infrastructure.
2. For response and recovery for County infrastructure see Annex G or V.
3. The County Wide regions will be known as a sector throughout the entirety of this plan.

III. CONCEPT OF OPERATIONS AND RISK MANAGEMENT

A. Identify Critical Assets

1. As critical Infrastructure are built or taken out of service, and technologies controlling these infrastructures change, owner/operators need to keep track of the universe of infrastructure assets that are critical to their everyday functioning. Therefore, the first step in the framework is to identify assets within each company, within the sector, and across sectors, including not only physical assets, but also the human resources and cyber components of various infrastructure systems.
2. Without an awareness of all potentially critical assets it would be impossible to accurately pinpoint the greatest priorities. The key decision in creating a list of critical assets is deciding what is important.
3. The owner or operators in each sector should have a sense of which of their facilities or components are key to operations or will result in such consequences if destroyed. It will be important to keep track of such assets and related information, such as:
 - a. Basic asset data (e.g., asset name, location, owner, and function)
 - b. Systems components that are central to the mission and function
 - c. Dependencies (on what the asset depends in order to function)
 - d. Results of vulnerability analyses
 - e. Continuity, redundancy, and resiliency built into the asset

B. Assess Risk

1. This process involves a set of analyses to assess the vulnerabilities of assets, and use of that data to complete an overall risk analysis. Vulnerability assessments evaluate potential weaknesses of an asset that, if exploited, could result in significant consequences.
 - a. Risk analysis is a process that combines consequence information, potential hazards, and data from vulnerability assessments to create an overall picture of relative risk. Risk analysis also results in a common quantitative categorization of risk that allows assets with different consequences and vulnerabilities to be compared side by side. This risk information is used to compare assets within and across sectors to allow determination of priority.

2. When assessing the risk it commonly address one of the three levels:
 - a. Risk posed by an individual assets or group of assets
 - b. Risk within a sector due to interdependencies among assets in that sector.
 - c. Risk due to interdependencies across sectors, regions, or the nation.
3. Individual owners or operators are encouraged to focus on risks for single or small sets of assets, primarily those they own. Groups of asset owners and operators within a sector can use that individually generated data to conduct the next level of analysis, which brings in interdependencies among assets and results in a sector-wide risk profile. This sector-wide risk analysis can be conducted in the sector information sharing networks. Finally, groups of owners, operators, and industry associations can use the sector-specific analyses to review risks across sectors within the County for a comprehensive analysis of the infrastructure system.

C. Prioritize Assets

1. The purpose of using common risk assessment processes is to ensure that data can be compared within and across sectors to determine which assets pose the greatest risk. This information can then be used to guide the allocation of resources for protective actions, as no business or government has enough resources to address all vulnerabilities. This allocation process should take into account the return on investment of the protective action.
 - a. Examples of this can include the overall value relative to the overall cost for a protective action.
2. Asset owners and operators should conduct an analysis to determine which protective strategies will pose the greatest benefit through reduction in risk. Many methodologies are already being used and may be applicable to this process.

D. Implement Protective Programs

1. Using information developed by prioritizing assets, owners and operators can make decisions regarding development and implementation of protective programs to reduce risk for the highest priority assets. A protective program is a coordinated plan of action to prevent, deter, and mitigate infrastructure failures. It is also designed to respond to, and

recover from such failures in a manner that limits the consequences and value of the failure. Actions to protect an asset fall into one or more of the following general categories:

- a. Actions that cause the potential attacker to perceive that the risk of failure is prohibitive.
- b. Procedures that reduce the attacker's incentive by reducing the target's value.
- c. Activities or mechanisms that identify potential attacks, validate the information, or communicate the information as appropriate.
- d. Actions that protect assets by preventing or delaying the actual attack or failure caused by another hazard either natural or human caused.

E. Assess Effectiveness

1. Once owners and operators have implemented protective measures they should develop criteria to measure the effectiveness of those measures. Assessing effectiveness provides a basis for establishing accountability, documenting actual performance, facilitating diagnoses, and promoting effective management. Effectiveness measures supply the data to affirm that specific goals are being met, or to show what corrective actions may be required to stay on target. An assessment of a protective measure may prove that it was unsuccessful in meeting its objectives, or may bring to light solutions to enhance the protective strategy.
 - a. These effective measures will vary from sector to sector and even among specific protective actions.
 - b. Owners and operators should develop measures around the specific objectives of each protective action.
3. Should owners receive resources from the County within the Critical Infrastructure Protection Plan to address vulnerabilities and establish protective measures, then the assessment of performance will be required. Trumbull County EMA will require the recipient of funds or resources to submit a status report on the effectiveness of the protective measure that was put in place.
 - a. Both the EMA and the recipient owner or operator will work together to develop a mutually acceptable set of measurements in these situations. The agreement made between these two will be a bonded contract between the County and the recipient.

IV. ORGANIZATION AND ASSIGNMENT OF RESPONSIBILITIES

A. Local Emergency Planning Committee (LEPC)

1. The LEPC also serves as the Emergency Management Advisory Committee. As the LEPC, its responsibilities are to oversee emergency management and homeland security-related issues, including regional planning and policies, and securing homeland security grants related to emergency personnel and agencies.
2. Approves County government expenditures and work plans related to homeland security. As it relates to this Critical Infrastructure Protection Program. The LEPC will continue its operations in accordance with its accomplishments.

B. Trumbull County EMA

1. The Trumbull County EMA is one of the subcommittees of this plan. Its primary responsibility is to complete the real ground work through creating work groups, as it relates to homeland security, by promoting regional coordination to address the management of terrorism prevention, response, and recovery activities. It is responsible for organizing and recommending projects, direction, and funding allocations to the LEPC.
2. The overall efforts of the County EMA can be supported by volunteer or county work groups that further review and address needs based upon the ever-changing requirements of the County. They can include the following:
 - a. Multi-Disciplinary Equipment Planning Group
 - b. Training and Exercises Work Group
 - c. Planning and Administration Work Group
 - d. Critical Infrastructure Protection Work Group
 - e. Community Emergency Response Team (CERT)
 - f. Law Enforcement Work Group

C. The Volunteer or County Work Group

1. The Work Group is one of the dedicated work groups dedicated to the EMA. Its primary mission is to facilitate and encourage the protection of county critical infrastructures and assets. It develops Critical Infrastructure Protection strategy, prioritizes infrastructure, reviews critical infrastructure needs and provides consultation to the LEPC on critical infrastructure-related security issues.
2. The County Work Group, if appointed, has overall responsibility for implementation of this Plan. The County Work Group will be responsible

for prioritizing infrastructure and assets based on information voluntarily provided by infrastructure owners and operators, and then addressing vulnerability concerns, as appropriate, in coordination with them.

3. The CIP Work Group will also support owners and operators by assisting them in coordinating with government counterparts in neighboring communities to address vulnerabilities, protective strategies, and potential funding sources for infrastructures with cross-jurisdictional ties that are brought the group's attention.
4. The CIP Work Group will seek approval for any funding requests or allocations from the EMA.

D. Owners and Operators

1. The ultimate protection of the County's critical infrastructures and key assets depends on the actions of the owners and operators of those assets.
 - a. Some protective failures are inevitable in this era of strategic terrorism, asset holder are expected to practice due diligence by doing everything within their power to protect their assets from potential hazards, make their assets less attractive as targets, and take actions to reduce impacts if events do occur.
2. Infrastructure owners and operators must be prepared to enhance their security measures and activate preparedness plans when credible threats are known.
 - a. A threat includes any forewarning that something may exploit vulnerability regardless of intention or cause. In any instance, owners and operators of critical infrastructures should have security and response plans in place to deploy or enhance security measures based on these threats.

V. DIRECTION AND CONTROL

- A. The Trumbull County EMA in cooperation with the LEPC will advise decision makers and coordinate response mitigation efforts with of critical infrastructures with the county and surrounding communities.
 1. If the EMA Director must be at the site risk assessment. They will appoint an employee to represent them at the LEPC meetings. If there is no apparent appointment, the EMA Director will stand in as the acting advisor within this plan.

- B. Internal resources of all operating departments will be managed by individual departmental procedures and policies.
- C. Each responding organization will communicate directly with its own field forces, and in turn will keep the EMA informed of appropriate information during non-emergency time.

VI. CONTINUITY OF GOVERNEMENT

Not used, See Annex G – Continuity of Government

VII. ADMINISTRATION AND LOGISTICS

A. Allocating Resources

1. This Section presents the protocol that will be used by the EMA and LEPC to make prioritization decisions related to Critical Infrastructure Protection. The EMA may receive resource requests from owners and operators who are unable to address the vulnerabilities of county critical assets without additional support. Because the County has limited resources and grant dollars, the EMA will need to identify which security gaps pose the greatest risk and then identify the appropriate strategy and resources for protection.
2. Prioritizing among critical assets and sectors, the EMA will use a consequence based crosswalk using information on vulnerability and consequence supplied by the owners and operator. Once priorities have been determined, the EMA will request that the owners and operators provide information on protective measure choices and an analysis
 - a. The CIP Work Group will use this information to identify which protective measures to fund and how that funding will be obtained. It is important to note that due to the voluntary nature of resources available to this program, the county may not actually consider the most critical infrastructures in the community when allocating funds.
 - b. If the owners and operators determine that they are capable of providing the proper security and ensuring the continued operation of their infrastructures then they may not bring those infrastructures to the attention of the county. Therefore, data provided to the county and funding requests associated with that data may involve infrastructures of lesser importance compared to others already being secured by their owners and operator or other government entities.

B. Consideration of Hazards

1. In conducting its analysis of critical infrastructure risks across the County, the EMA will take into consideration the types of threats facing the county if available from law enforcement agencies. These generally known hazards or threats should be at the foundation of each owners or operator's risk analysis.
2. In considering the threats facing assets of this nation, the EMA in cooperation with the LEPC will also consider national preparedness scenarios relevant to the communities that are being used as the basis for the National Preparedness Goal. It is recommended that infrastructure owner/operators also use these threat scenarios in internal protection planning efforts once they become available.

C. Protective Measures

1. Once the EMA, in cooperation with the LEPC, has chosen the top regional assets based on potential consequences it will review the protective measure selections submitted by the asset owners and operators. The asset owners and operators must supply the EMA with select information on protective measure options to facilitate its decisions.
2. The County shall take greater consideration of protective options that are eligible for Federal grant dollars. Common critical infrastructure protective strategies that the County may consider, and those which are eligible for DHS, OEMA, or FEMA grant funding,

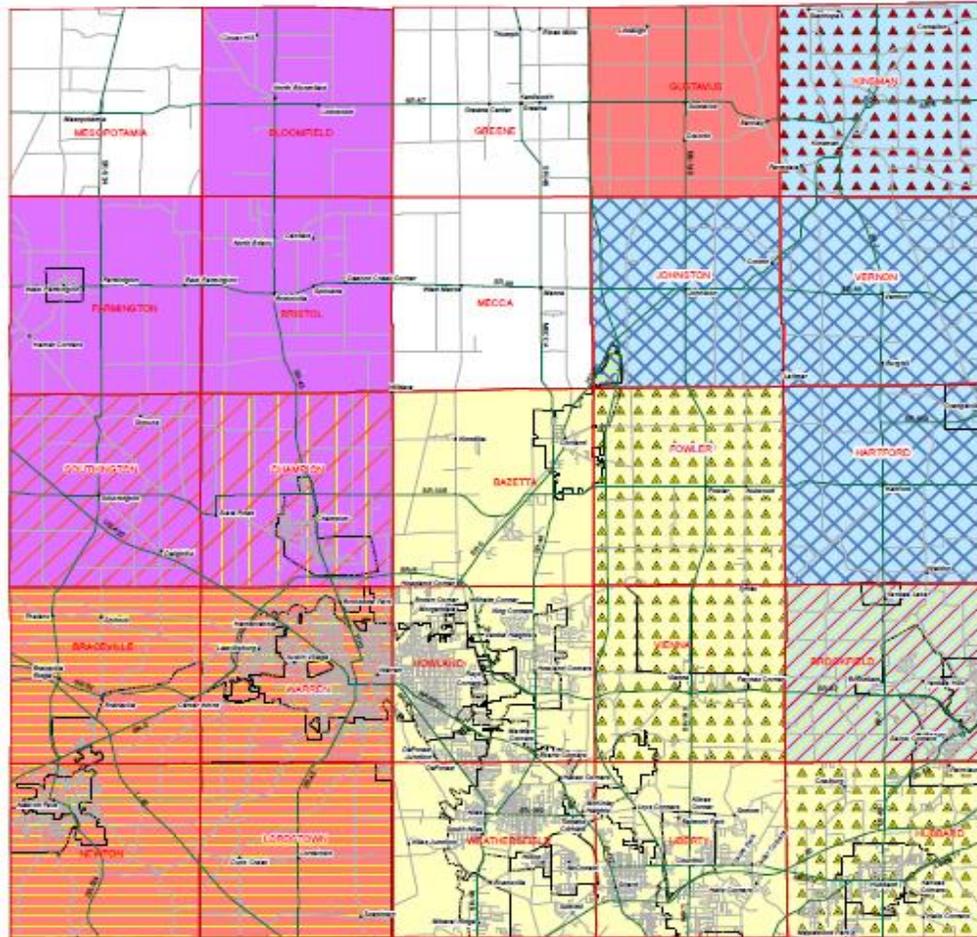
VIII. PLAN DEVELOPMENT AND MAINTAINENCE

Trumbull County EMA in collaboration with the County work group (if appointed) and the LEPC will be responsible for the development and maintenance of this Plan and, as such, has overall responsibility for its implementation. The EMA will also be responsible for prioritizing infrastructure and assets based on information voluntarily provided by infrastructure owner and operators, and then addressing vulnerability concerns, as appropriate, in coordination with the owner/operators. The EMA will support owner and operators by assisting them in coordinating with government counterparts in neighboring cities, villages, or townships to address vulnerabilities, protective strategies, and potential funding sources for infrastructures with cross-jurisdictional ties. Trumbull County EMA and its affiliates will seek approval for any funding requests from any allocations.

IX. AUTHORITIES AND REFERENCES

Not used in this Section

Trumbull County PUCO Regulated Natural Gas Companies



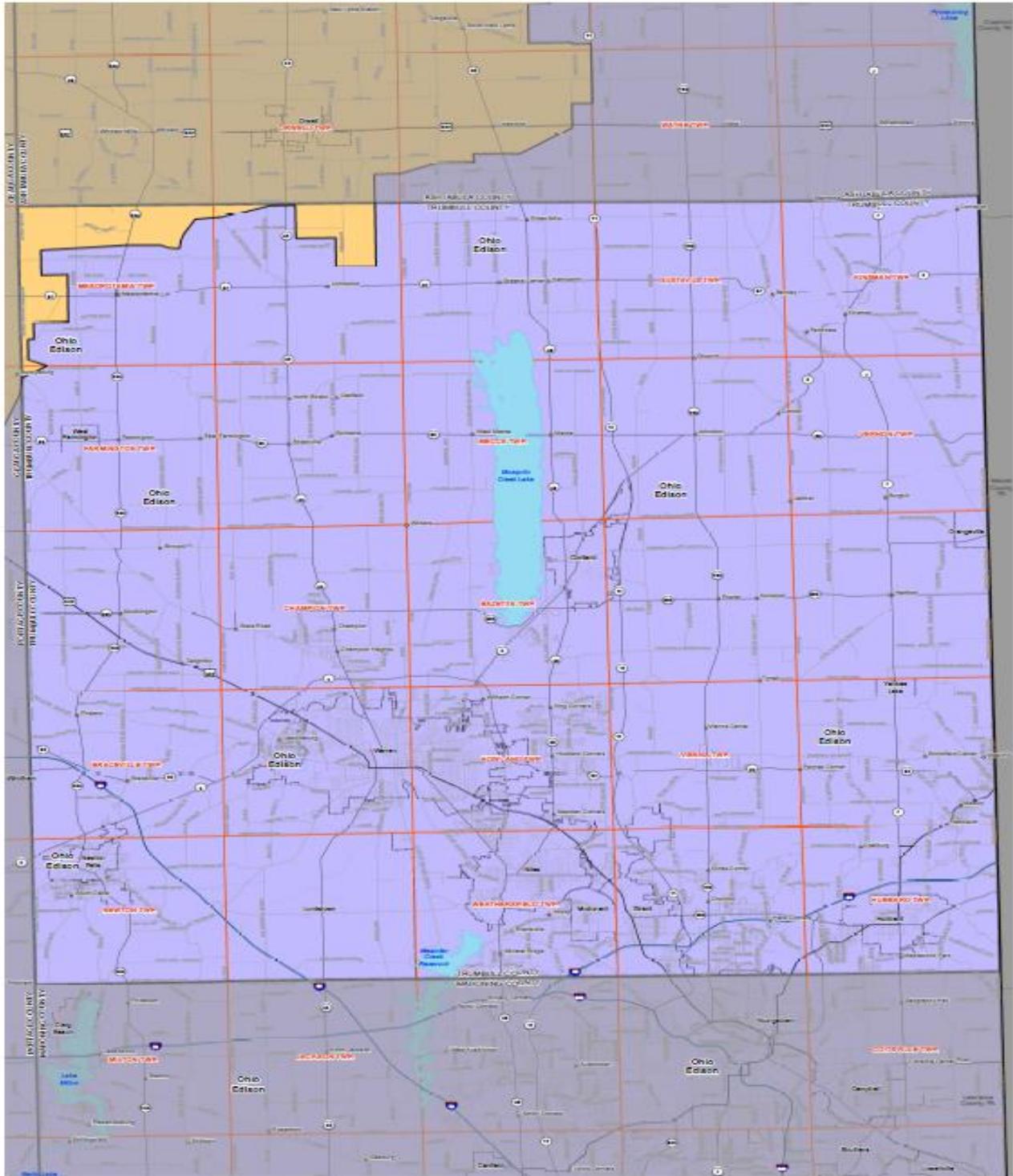
- | | | | |
|--|--------------------------------|--|-------------------------------|
| | Eastern | | Northeast & East Ohio |
| | East Ohio | | Orwell, East Ohio & Northeast |
| | Northeast | | Orwell & Northeast |
| | Orwell | | Township |
| | Eastern & East Ohio | | City Boundary |
| | Eastern & Northeast | | Place |
| | Eastern, East Ohio & Northeast | | Main Road |
| | | | Secondary Road |

This map was created by combining the responses of regulated gas utilities to a request by the PUCO staff for information on the area served by each utility. As a result, there is some degree of overlap of the service areas claimed by the utilities. Also, some areas (shown in white on the map) were not included in any of the responses. This does not necessarily mean that there is no gas service in these areas. We make no claim to the accuracy of this information at this time. Information presented here should be independently verified before using it.

Public Utilities Commission of Ohio
<http://www.puco.ohio.gov>



Electric Service Areas in Trumbull County



Ohio Public Utilities Commission

The Public Utilities Commission of Ohio (PUCO) provides this map for your personal use only. The areas in this map are approximate, and are not necessarily accurate in conformity with engineering standards. This map is for illustrative purposes only and is not suitable for site-specific location finding. Utility areas often have been made to ensure the accuracy, timeliness and availability of this map. The PUCO assumes no responsibility for errors or omissions.

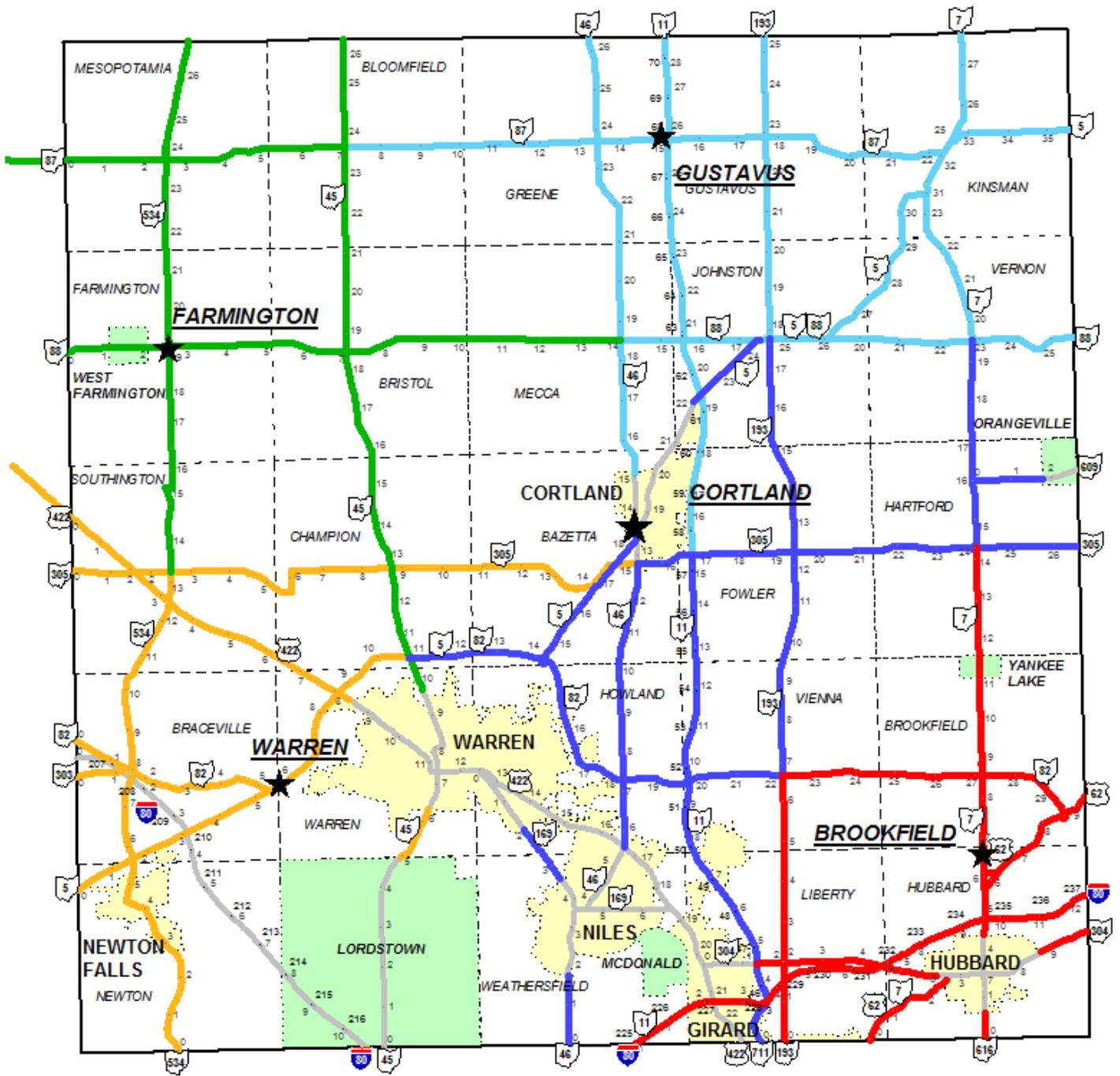
October 18, 2011

- Electric Service Area
- US Highway
- City Boundary
- Place
- Ohio Highway
- Township Boundary
- Interstate Route
- Local Road
- County Boundary



Tab 4 to Annex G (Engineering, Utility, and Public Works Plan)

Trumbull County Snow and Ice Routes



Cortland Garage	Brookfield Outpost	Farmington Outpost	Gustavus Outpost	Warren Outpost
Area 1	Area 1	Area 1	Area 1	Area 1
Area 2	Area 2	Area 2	Area 2	Area 2
Area 3	Area 3	Area 3	Area 3	Area 3
Area 4	Area 4		Area 4	Area 4
Area 5	Area 5		Area 5	
Area 6	Area 6			