

City of Alabaster Draft 2018-2023 Floodplain Management Action Plan

| # | Mitigation Actions by Goal Area and Objective | Implementation Responsibility | Timeframe for Completion | Funding Source | Priority |
|-------|---|--------------------------------|--------------------------|---------------------|----------|
| 1 | <i>Goal for Prevention. Manage the development of land and buildings to minimize risks of loss due to flooding and related natural hazards. Protect structures and their occupants and contents from the damaging effects of such hazards.</i> | | | | |
| 1.1 | Elevation Certificates. Maintain FEMA Elevation Certificates for buildings in the floodplain. | | | | |
| 1.1.1 | Maintain FEMA elevation certificates for all new or substantially-improved buildings and existing "post-FIRM" buildings constructed after the effective date of the City's first FIRM on January 2, 1981. | City Engineer | Ongoing | Existing City funds | High |
| 1.2 | Floodplain Mapping. Keep accurate and current floodplain maps and data used for regulatory purposes. | | | | |
| 1.3 | Higher Regulatory Standards. Amend the City's Flood Damage Prevention Ordinance to establish new regulatory standards that exceed the NFIP minimums that are effectively administered by qualified City staff. | | | | |
| 1.3.1 | Consider a requirement for additional freeboard of more than one foot for minimum building elevation and flood protection. | City Engineer | Mid-Range | Existing City funds | Medium |
| 1.3.2 | Consider a requirement for foundations to be designed by a licensed engineer. | City Engineer | Mid-Range | Existing City funds | Medium |
| 1.3.3 | Consider lowering the threshold for substantial improvements to less than 50% of the building value requires full compliance with floodplain management ordinance. | City Engineer | Long-Range | Existing City funds | Low |
| 1.3.4 | Consider a requirement that improvements, modifications, and additions to existing buildings are counted cumulatively for at least 10 years. | City Engineer | Long-Range | Existing City funds | Low |
| 1.3.5 | Consider protection of critical facilities (police, fire, public utilities, schools, medical, etc.) to the 500 year flood elevation. | City Engineer | Mid-Range | Existing City funds | Medium |
| 1.3.6 | Consider a requirement for compensatory storage for fill. | City Engineer | Long-Range | Existing City funds | Low |
| 1.3.7 | Consider a prohibition on outdoor storage of hazardous materials in the floodplain. | City Engineer | Mid-Range | Existing City funds | Medium |
| 1.4 | Flood Data Maintenance. Maintain essential field data for floodplain management. | | | | |
| 1.4.1 | Maintain elevation reference marks. | Public Works and City Engineer | Ongoing | Existing City funds | Low |
| 1.5 | Stormwater Management. Effectively manage stormwater to maintain water quality and minimize flooding. | | | | |

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| 1.5.1 | Enforce stormwater management standards (design storm and size of development) for the regulation of new development to ensure that post-development peak runoff is no worse than pre-development conditions | City Engineer | Ongoing | Existing City funds | High |
| 1.5.2 | Enact regulations to require the implementation of low impact development (LID) techniques to minimize the need for more traditional stormwater management controls (pipes, channels, and detention). | City Engineer | Short-Range | Existing City funds | High |
| 2 | <u>Property Protection Goal.</u> Protect structures and their occupants and contents from the damaging effects of flooding and related natural hazards. | | | | |
| 2.1 | Acquisition and Relocation. Remove flood-threatened buildings from high risk flood locations. | | | | |
| 2.1.1 | Acquire and demolish flood-prone buildings and maintain the property as permanent open space, where feasible. | City Engineer | Long-Range | FEMA HMA Grants | Low |
| 2.1.2 | Relocate flood-prone buildings so that they are out of the floodplain, where feasible. | City Engineer | Long-Range | FEMA HMA Grants | Low |
| 2.2 | Flood Protection. Take measures to permanently protect existing flood-prone properties from flood damage on a building-by-building basis. | | | | |
| 2.2.1 | Retrofit existing non-residential flood-prone buildings by flood proofing. | City Engineer | Long-Range | FEMA HMA Grants | Low |
| 2.3 | Flood Insurance Promotion. Promote the purchase of flood insurance, especially for high risk properties in the flood plain. | | | | |
| 3 | <u>Public Education and Awareness Goal.</u> Educate and inform the public about the risks of flooding and related natural hazards and the techniques available to reduce threats to life and property. | | | | |
| 3.1 | Map Information Service. Provide flood map information to the public. | | | | |
| 3.1.1 | Provide Flood Insurance Rate Map (FIRM) information to people who inquire and publicize this service. | Building Safety and City Engineer | Ongoing | Existing City funds | High |
| 3.2 | Outreach Projects. Regularly perform public outreach and education programs to inform the public of flood risks and mitigation alternatives. | | | | |
| 3.2.1 | Send information about the flood hazard, flood insurance, flood protection measures, and/or the natural and beneficial functions of floodplains to residents. | City Engineer | Ongoing | Existing City funds | Medium |
| 3.3 | Hazard Disclosure. Take steps to inform the public of flood hazards. | | | | |
| 3.3.1 | Encourage real estate agents to advise potential purchasers of flood-prone property about the flood hazard. | Building Safety and City Engineer | Ongoing | Existing City funds | High |

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| 3.4 | Flood Protection Information. Distribute flood protection information to the general public. | | | | |
| 3.4.1 | Maintain FEMA publications and reference materials in the City's public library. | City Engineer | Ongoing | Existing City funds | High |
| 3.4.2 | Create a webpage on the City's website to disseminate flood protection information to the public. | I.T. | Mid-Range | Existing City Funds | Medium |
| 3.5 | Flood Protection Assistance. Provide technical guidance for protection of buildings from flood damage. | | | | |
| 4 | <i>Natural Resources Protection Goal. Preserve and restore the beneficial functions of floodplains and the natural environment to promote sustainable community development that balances the constraints of nature with the social and economic demands of the community.</i> | | | | |
| 4.1 | Open Space Preservation. Preserve open space to restore the natural functions of the flood plain, where feasible. | | | | |
| 4.1.1 | Preserve City-owned floodplain lands as permanent open space, kept free from development through deed restrictions. | Parks and Recreation, City Engineer | Ongoing | Existing City funds | High |
| 4.1.2 | To the extent possible, maintain or restore City-owned flood plains to their natural condition. | Parks and Recreation | Ongoing | Existing City funds | High |
| 4.1.3 | Provide zoning and subdivision incentives to set aside flood plains as permanent open space in new developments. Enforce provisions for clustering and conservation subdivisions. | Planning and Zoning | Short-Range | Existing City funds | High |
| 5 | <i>Structural Projects Goal. Apply engineered structural modifications to natural systems and public infrastructure to reduce the potentially damaging impacts of flooding and related natural hazards, where found to be feasible, cost effective, and environmentally suitable.</i> | | | | |
| 5.1 | Drainage System Maintenance. Maintain natural and manmade drainage systems to effectively discharge stormwater and reduce flooding. | | | | |
| 5.1.1 | Conduct regular inspections and maintenance of all channels and conveyance facilities and remove debris as needed. | Public Works | Ongoing | Existing City funds | High |
| 5.1.2 | Regularly inspect all detention and retention facilities constructed pursuant to the City's stormwater management regulations and all city-owned facilities to ensure proper functioning. | Public Works | Ongoing | Existing City funds | High |
| 5.1.3 | Establish an annual capital improvements programming process for drainage system improvements. | City Manager, Public Works, City Engineer | Ongoing | Existing City funds | High |
| 5.1.4 | Enforce no stream dumping regulations. | Police, Building Safety | Ongoing | Existing City funds | High |
| 5.2 | Flood Protection. Implement structural improvements where deemed effective to reduce flooding. | | | | |

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| 6 | <i>Emergency Services Goal. Improve the efficiency, timing, and effectiveness of response and recovery efforts for flooding and related natural disasters.</i> | | | | |
| 6.1 | Flood Warning and Response. Apply advanced technological systems to monitor flood threats and warn the public. | | | | |
| 6.1.1 | Coordinate flood warning and response activities with critical facilities operators. | Police, Fire, and Shelby County EMA | Ongoing | Existing City funds | High |