

APPENDIX E

Analysis of National Nonstructural Committee Assessment

1 Nonstructural Assessment

An effective strategy to reduce the risk of structural damage during a flood event is to consider nonstructural alternatives. The term nonstructural is expansive and ranges from buying out a structure to installing an upstream gage to track water levels. The nonstructural assessment conducted for this study relied on only nonstructural alternatives with a direct relationship to reducing flood damage to structures. These alternatives include sewer backup check valves, filling subfloor (basement or crawlspace) areas, relocating utilities, floodproofing, and elevating, acquiring, or relocating buildings. Each structure in the 1% AEP floodplain within the Lower Meramec Basin study area was individually evaluated for nonstructural alternatives that considered engineering, economic, social, and environmental criteria to determine the final mitigation recommendation.

1.1 Available Mitigation Approaches

Nonstructural floodproofing is an umbrella term that incorporates flood mitigation techniques that do not involve structural methods such as large-scale berms, levees, floodwalls, flood gates, etc. Instead, nonstructural floodproofing can be broken down into three major strategies:

1. Dry or Wet Floodproofing
2. Elevation
3. Structure Acquisition and Relocation

Dry floodproofing attempts to keep water away from the structure by creating a watertight seal with exterior barriers such as impervious sheeting, waterproof walls, watertight shields for doors and windows, and drainage collection systems such as a sump pump. Dry floodproofing is best for slab foundation structures with flood depths three feet or less, which limits hydrostatic forces pushing on subfloor areas. If the structure has a subfloor area, it can be filled with sand or other material. Dry floodproofing achieves flood risk reduction benefits, but is not recognized by the NFIP for any flood insurance premium rate reduction if applied to residential structures and cannot be used to bring any structure into compliance with a community's floodplain ordinance. Figure 1 shows a diagram that summarizes the features of dry floodproofing.

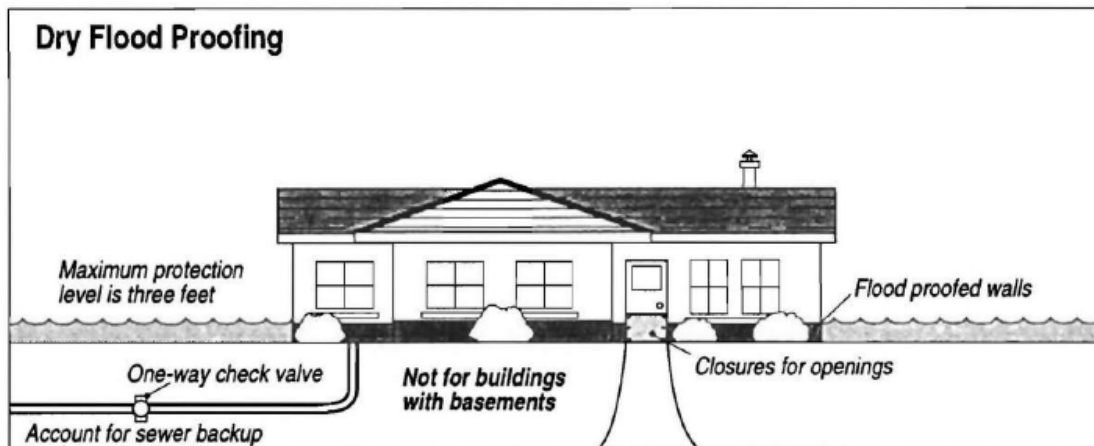


Figure 1. Nonstructural Dry Floodproofing Diagram

Wet floodproofing allows water to enter the structure but limits damages by moving utilities, appliances, or other high value items to a higher elevation within the structure. The benefit of allowing water into a structure is to equalize or lessen the load on floors and walls from the effects of hydrostatic forces. While not typically recommended, a residential structure can be wet floodproofed by being constructed and finished with water resistant materials as shown in Figure 2. Wet floodproofing is best suited for warehouse structures given the open floor plans can be retrofitted to elevate high value machinery and inventory. If the structure does have a subfloor area such as a basement, it is commonly recommended to fill the basement with sand or other material and relocate the lost square footage into a new addition above the base flood elevation. It is worth noting that wet floodproofing cannot be used to bring a residential structure into compliance with the community's floodplain management ordinance.



Figure 2. Nonstructural Wet Floodproofing Diagram

Elevating structures is more expensive than floodproofing but also provides more benefits by raising the structure above the base flood elevation. For this strategy, the structure is elevated from its existing foundation material onto a new foundation. Different foundation types present unique challenges with respect to structural elevation, with crawlspace foundations being the easiest and slab foundations being the most challenging. Similar to other floodproofing alternatives, any usefulness from a basement would be lost as the only subfloor area allowed under NFIP regulations would be an enclosure with the appropriate amount of vents to allow for hydrostatic pressure equalization.

The analysis for this report assumes that any structure outside of the floodway is elevated on fill and structures located in the floodway are elevated on piers or posts to avoid floodway encroachment. Figure 3 shows a diagram that summarizes the features of elevation. The elevation mitigation approach assumes that each structure was elevated high enough to be greater than the base flood elevation.

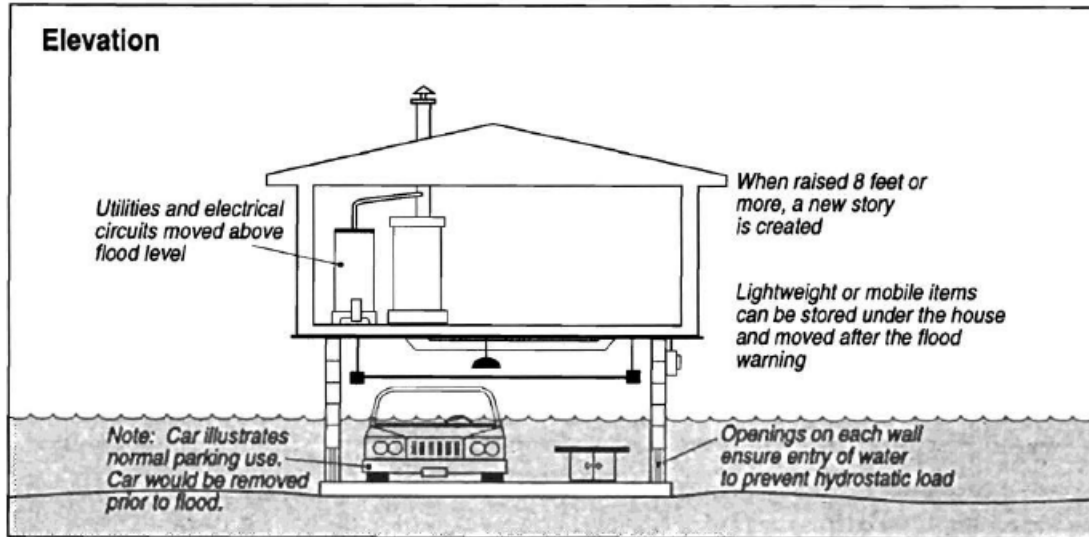


Figure 3. Nonstructural Elevation Diagram

Structure acquisitions (buyouts) and relocations are mitigation strategies that remove the hazard from the floodplain, which is the only nonstructural alternative that permanently reduces flood risk. Relocations involve uplifting a structure onto a transport vehicle and relocating it to an area outside of the floodplain. It can also include purchasing the structure and providing a payment towards rebuilding on a plot of land outside of the floodplain. Acquisitions involve purchasing and demolishing the home or building and generally restricting the deed to require maintaining the site as open space in perpetuity. Acquisition is generally the most expensive mitigation approach as it requires compensating the homeowner the full market value of the structure. This study makes the assumption that the cost of acquisition only includes the cost of acquiring the structure without having to pay for relocation. If acquisition funding were to be funded through a federal grant program, then the homeowner may be eligible for monetary relocation assistance.

1.2 Mitigation Cost Assumptions

Each mitigation approach will vary in cost based on a variety of assumptions. The cost of nonstructural mitigation has been studied by the U.S. Army Corps of Engineers (USACE) in previous reports, and the cost estimates from those reports will be utilized for the Lower Meramec Basin to prioritize which mitigation approach minimizes costs based on engineering, economic, social, and environmental considerations. The costs in this report are not site-specific to the Lower Meramec area and should therefore only be relied on for comparing approaches and evaluating cost-effectiveness.

Costs for structural elevation were taken from the 2017 Whittier Narrows Dam Safety Modification Study¹ and vary by the amount of elevation as shown in Table 1. The costs assume a building has a slab on grade foundation and is priced per square foot of livable square feet. Slab on grade foundations are the most expensive foundation to elevate as they lack easy access to the floor joists that crawlspace and basement foundations provide. The structural elevation estimate for this report also assumes elevating on a 2:1 fill slope, meaning adequate space must be present

¹ Available online at <https://www.spl.usace.army.mil/Missions/Civil-Works/Projects-Studies/Whittier-Narrows-Dam-Safety-Modification-Study/>. Accessed on 15 November 2019.

on the parcel to accommodate the increase in the size of the footprint of the structure. In addition to elevating on fill, other foundation types include piers, posts, columns, and piles.

Table 1
Slab on Grade Elevation Costs (per sq/ft)

Height Raised (ft.)	Slab on Grade
2	\$ 43
3	\$ 44
4	\$ 45
5	\$ 46
6	\$ 48
7	\$ 49
8	\$ 51
9	\$ 53
10	\$ 55

Costs for dry and wet floodproofing were taken from the 2016 Ste. Genevieve Draft General Reevaluation Report.² Dry floodproofing is estimated to cost \$25 per square foot for wood frame structures and \$22 per square foot for brick structures. These estimates include the cost of the veneer wall and watertight doors. A cost of \$30 per square foot was determined to fill a basement or crawl space, which requires enough sand fill for an eight foot tall basement or three foot tall crawlspace. An additional \$1,600 was added to each floodproofing estimate to account for installation of a sewer check valve.

For wet floodproofing, utilities will be relocated from a subfloor area to above the first floor elevation. The relocations considered for this report were electricity (\$2.80 per square foot), plumbing (\$4.40 per square foot), and HVAC (\$6.70 per square foot). An additional \$7,200 was added for commercial warehouses, which require the relocation of electrical outlets, meter, fuse box and HVAC compressor.

Acquisition costs are based on the property value of the structure and is sourced from the appraised property value from the County Tax Assessors databases for each county. Costs associated with acquisition include demolition, real estate fees and transferring the deed. These costs include \$45,000 for slab and crawlspace structures and \$63,000 for structures with a basement and are in addition to the appraised property value. Costs associated with compliance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (URA) were not included in acquisition costs since this report only calculates the cost of acquisition and does not take into account the potential cost of relocation.

1.3 Mitigation Cost Estimation

A preliminary cost estimate was developed for each structure using the four available mitigation approaches discussed in Section 1.1 and based on the cost assumptions from Section 1.2. The costs identified in this report are not an engineering recommendation and should only be used for

² Available for review from the U.S. Army Corps of Engineers-St. Louis District

comparing mitigation approaches and evaluating cost-effectiveness. The cost estimates used in this report were developed based on the structures' following foundation types:

1. *Basement*

- a. Acquisition – cost based on the market value of the building plus the cost associated with demolition, real estate fees, and transferring the deed
- b. Elevation – cost based on filling the basement with eight feet of fill, elevating the building above the base flood elevation, and relocating all plumbing and HVAC
- c. Floodproofing – cost based on the flood elevation relative to the first floor:
 1. For structures with inundation less than the first floor elevation the cost is based on relocating all plumbing and HVAC and installing a sewer check valve.
 2. For structures with inundation greater than the first floor elevation the cost is based on filling the basement with eight feet of fill, relocating all plumbing and HVAC, and installing a veneer wall, watertight doors and sewer check valve.

2. *Crawlspace*

- a. Acquisition – cost based on the market value of the building plus the cost associated with demolition, real estate fees, and transferring the deed
- b. Elevation – cost based on filling the crawlspace with 3 feet of fill, elevating the building above the base flood elevation, and relocating all plumbing and HVAC
- c. Floodproofing – cost based on the flood elevation relative to the first floor:
 1. For structures with inundation less than the first floor elevation the cost is based on relocating all plumbing and HVAC and installing a sewer check valve.
 2. For structures with inundation greater than the first floor elevation the cost is based on filling the crawlspace with three feet of fill, relocating all plumbing and HVAC, and installing a veneer wall, watertight doors and sewer check valve.

3. *Slab*

- a. Acquisition – cost based on the market value of the building plus the cost associated with demolition, real estate fees, and transferring the deed
- b. Elevation – cost based on elevating the building above the base flood elevation and relocating all plumbing and HVAC
- c. Floodproofing – cost based on the flood elevation relative to the first floor:
 1. For structures with inundation less than the first floor elevation the cost is based on installing a sewer check valve.
 2. For structures with inundation greater than the first floor elevation the cost is based on relocating all plumbing and HVAC, and installing a veneer wall, watertight doors and sewer check valve.

2 Holistic Flood Mitigation Recommendation Methodology

This report relied on a holistic flood mitigation recommendation, which was derived by studying how structures interact with the floodplain using four unique considerations:

1. Engineering considerations
2. Economic considerations
3. Social considerations
4. Environmental considerations

A nonstructural mitigation methodology based on structural characteristics and these four considerations was developed to determine the final recommendations. The formula was built originally to only include engineering considerations and was further modified to incorporate economic, social, and environmental considerations. The methodology of how each of these considerations were applied and what weight they played on the overall nonstructural mitigation recommendations is explained in subsequent sections.

2.2 Engineering Considerations

Engineering considerations are the foundation of the methodology required to perform a feasible nonstructural mitigation project. Recommendations must be made with feasible engineering designs so that the project fulfills its intended design life and meets its objectives to protect life and property and meets or exceeds the intended design life. Figure 4 shows the engineering criteria developed by the USCAE National Nonstructural Committee and it was used as guidance for this study and its recommendations.

In application of the engineering considerations, the structure inventory was sorted by flood depth, occupancy type (residential, commercial, industrial, or public), foundation type (basement, crawlspace, or slab), and exterior building type (Masonry, metal, or wood). The first iteration of the nonstructural recommendation formula provided clarification of which types(s) of nonstructural mitigation techniques were feasible for each structure. Each structure could have multiple mitigation techniques. For example, a single story residential structure built on a concrete slab with 2 feet of flooding during the 1% AEP event would be eligible for dry floodproofing, elevation, or acquisition. To decide which mitigation technique would be selected, the economic consideration was applied to determine the least cost method that reduces flood risk for the individual structure. A description of the economic considerations can be found in the next section.

NONSTRUCTURAL FLOOD RISK MANAGEMENT MATRIX May 2019		PHYSICAL NONSTRUCTURAL MITIGATION MEASURES									
		Elevation						Relocation	Acquisition	Dry Flood Proofing	Wet Flood Proofing
		Extended Foundation	Piers	Posts	Columns	Piles	Fill (compacted)				
Flood Characteristics	Flood Depth										
	Shallow (<3 feet)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Moderate (3 to 6 feet)	Y	Y	Y	Y	Y	Y	Y	Y	N	Y
	Deep (6 to 12 feet)	Y	Y	Y	Y	Y	Y	Y	Y	N	Y
	Very Deep (>12 feet)	N	N	N	N	N	N	Y	Y	N	N
	Flood Velocity										
	Low (less than 3 feet per second)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Moderate (3 to 6 feet per second)	N	Y	Y	Y	Y	Y	Y	Y	N	N
	High (greater than 6 feet per second)	N	Y	N	N	Y	N	Y	Y	N	N
	Flash Flooding										
	Yes (less than 1 hour warning)	Y	Y	Y	Y	Y	Y	Y	Y	N	N
	No (more than 1 hour warning)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Debris /Ice Flow										
Yes	N	Y	N	N	Y	Y	Y	Y	N	N	
No	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Site Characteristics	Site Location										
	Coastal Beach Front	N	N	N	N	Y	N	Y	Y	N	N
	Coastal Interior (Low Velocity)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Riverine Floodplain	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Soil Type										
	Permeable	Y	Y	Y	Y	Y	Y	Y	Y	N	Y
Impermeable	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Structure Characteristics	Structure Foundation										
	Slab on Grade (reinforced)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Crawlspace	N	N	N	N	N	Y	Y	Y	N	Y
	Basement	N	N	N	N	N	Y	Y	Y	N	Y
	Abandonment of Crawlspace/Basement	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Structure Envelope/Exterior										
	Concrete, Stone, or Masonry	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Metal	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Wood	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Overall Structure Condition										
Excellent to Fair	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Fair to Poor	N	N	N	N	N	N	N	Y	N	N	

Figure 4. USACE Nonstructural Flood Risk Management Matrix

2.3 Economic Considerations

Economic considerations build upon the potentially feasible engineering mitigation techniques available for each of the individual structures. The fundamental purpose of the economic considerations is to select the mitigation technique that is the least costly, but which fully mitigates flood damages at a particular flood frequency, defined as the 1% AEP event for this study. For example, if a residential structure has been deemed appropriate for dry floodproofing, elevation, or acquisition, and all three techniques provide the same effectiveness (defined as its ability to reduce damages during the 1% AEP event), then the least cost alternative would be selected, which is typically dry floodproofing.

While all mitigation techniques may be effective at reducing damages at the 1% AEP event, there are advantages to the acquisition technique that the floodproofing and elevation techniques do not have. Acquisition is the only technique that provides certainty that the particular structure will never experience flood damages again. For example, if a structure is dry floodproofed to the 1% AEP event, and a 0.2% AEP event occurs, that structure will incur flood damages even though it was floodproofed. An acquired structure will never be damaged again, and as a result, a caveat in the recommendation formula was added so that if the total cost of acquisition is within 25% of any other nonstructural measure, it will be selected as the recommended mitigation technique.

The joint application of the engineering and economic considerations is further described in the following subsections.

2.3.1 Acquisition

The rationale for acquisition was based on identification of acquisition as the least cost mitigation approach. Some structures were also identified for acquisition where acquisition was not the least cost mitigation approach. In these situations, acquisition was selected if the structure met any of the following criteria:

1. Located in the floodway and the cost was lower than elevation
2. Total cost within 25% of other nonstructural measures

It was assumed that since acquisition completely removes the flood hazard into perpetuity, that the property owner and city would elect to acquire the structure rather than paying marginally more for a mitigation measure that does not fully remove the risk of damage, especially for more infrequent flooding larger than the 1% AEP event.

2.3.2 Floodproofing

The rationale for floodproofing was based on the structure's foundation, occupancy type and local flood characteristics. Wet floodproofing was applied to commercial and industrial structures characterized similarly to a warehouse style building that could allow water to flow in without having to be concerned with hydrostatic pressures. Dry floodproofing was applied to all non-warehouse style structures experiencing less than three feet of flooding relative to the first floor elevation. Floodproofing structures with depths of flooding below the first floor was the most cost-effective alternative since most flood related damages could be mitigated by filling the subfloor area and relocating utilities above the first floor. For structures with flooding greater than the first floor elevation, the cost-effectiveness decreased given the additional veneer and watertight doors required to mitigate flooding.

2.3.3 Elevation

The rationale for elevating structures was based on local flood characteristics and the least cost mitigation approach. Elevating structures is an effective flood mitigation approach up to 10 feet of rise and, assuming proper slope grading and fill compaction, is not subject to hydrostatic pressures. Elevating structures has a high upfront cost resulting from filling in subfloor areas and lifting structures onto a new foundation. As a result, elevation is limited to structures with significant flood depths (at least three feet) given that floodproofing is more cost-effective for shallower flood events. If elevation of the structure were to occur in the floodway, it would have to be changed to elevating on piles, piers or other systems that would avoid obstructing the floodway and therefore allow flood flows to bypass the structure.

2.4 Social Considerations

Traditionally, engineering and economic assumptions make up the fundamental criteria for making floodplain mitigation decisions. These considerations are quantitative and provide decision makers with data to inform the most efficient and effective recommendations. Social considerations are more qualitative and are therefore increasingly challenging to incorporate. However, taking social aspects into project considerations results in more realistic recommendations. The recommendations take into account the people who are being affected and incorporate the demographics and socioeconomic status of the communities these recommendations involve.

2.4.1 Mobile Home Parks

Mobile homes are a large trailer or transportable structure that is parked in a particular place and used as a permanent dwelling. While it is not guaranteed that single-family structures have significantly more income and resources, national statistics show that occupants of mobile homes generally have a lower median income than single-family households. Mobile home parks are typically made up of one wholly owned parcel in which multiple tenants rent mobile home pads. The renting individuals may own or rent the mobile home which sits on the mobile home pad. One effective mitigation strategy is to purchase the land parcel from willing land owners, which may force the mobile home occupants to relocate out of the flood-prone area. The challenge from an engineering and economic perspective is that large mobile home parks have variable levels of flood depths based on topography. Some portions of a parcel may contain mobile homes with deeper flood heights, where other portions of the parcel are not expected to be inundated. Figure 5 shows the Starling Estates Mobile Home Park in Arnold, Missouri, where flood depths vary across the parcel.

If flood mitigation recommendations were only to consider engineering and economic considerations, it may be expected that mobile homes without flood risk be left as is, and instead of acquiring the entire parcel and relocating its tenants, that only flood-prone mobile homes would be targeted. This approach does not take into account community fragmentation and does not address the issue that land owners are allowed to rent out floodprone mobile home pads to tenants. By acquiring the entire parcel and relocating its occupants, the land can be legally required to remain as open space permanently, thereby removing the flood hazard.



Figure 5. Example of Variance in Flood Depths across Single Parcel Mobile Home Parks

The rationale for relocating mobile home structures is based on local flood characteristics and social considerations. For this report, relocation was reserved for tenants that would not receive the same relocation assistance under the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (URA) that homeowners would receive. Tenant Uniform Relocation Act (URA) support is limited in scope to include out-of-pocket moving expenses and compensation for an increase in rent and utility costs incurred with the relocation, with a maximum payment of \$7,200. Additional services are also available to tenants. This payment ceiling is considerably lower than if the mobile home tenant owned the parcel they park on, as in that case they may be eligible for up to \$31,000 in assistance.

The conundrum of tenants living in flood-prone areas, especially mobile homes, is that the landowner is responsible for making the decision to accept a voluntary buyout, yet it may not be in the landowner's financial interest to do so. If the land owner accepts a buyout, they may only be compensated for the value of the land and not the improvements such as utility hookups and concrete pads. Additionally, the landowner is subject to losing monthly rental income from the tenants who rent mobile home pads. However, the landowner would no longer have to pay property taxes or upkeep on the property; nor (potentially) income tax on the rental income. On

the tenant's side, mobile home tenants are limited in compensation and are typically not restricted as to where they can relocate as landowners are after acquisition. This dichotomy, if not managed properly, leads either to a landowner being reluctant to sell, or mobile home tenants potentially moving from one flood-prone location to another flood-prone location to maintain comparable costs of living.

All mobile homes associated with this report are recommended to be relocated to an area outside of the floodplain and the cost associated with this relocation is based on the tenant relocation assistance value of \$7,200 from the Tenant Uniform Relocation Act (URA). A formal relocation analysis is outside of the scope of this report and is the responsibility of the municipality to find a suitable parcel for mobile homes to relocate to.

2.4.2 Emergency Response Services

It is essential that public services within a floodplain be made available to those who rely upon them during times of emergencies. These services include fire rescue, police dispatch, emergency medical service response, and any other public service related to life safety. Structures associated with emergency response being located in the floodplain can cause delay or abandonment of essential duties during a flood event, and as a result, any emergency response service structure identified in the 1% AEP floodplain has been recommended for acquisition. This recommendation does not mean that this report recommends removing the services, but rather recommends that a new structure be constructed in a location best suited to respond to emergencies without being impeded by flooding concerns.

2.5 Environmental Considerations

As previously mentioned, social and environmental considerations are typically left out of mitigation recommendations in exchange for the quantitative ease that engineering and economic considerations are able to provide. Areas impacted by the 1% AEP flood event include large swaths of sediment rich soil which provide a wide array of habitat types. These floodplains serve important ecological roles for numerous plant and animal species when left unhindered by human development. In addition, numerous goods and services are provided by ecosystem services which greatly benefit human health and well-being. Incorporating environmental benefits into the floodplain mitigation process involved evaluation of four environmental benefit evaluation criteria:

- 1) Floodplain Connectivity
- 2) Endangered Species or Species of Conservation Concern
- 3) Priority Conservation/Natural Areas
- 4) State Nutrient Reduction/Water Quality

Each of these environmental evaluation criteria were supported with multiple geospatial data files that were overlaid with the structure inventory to determine the comparative environmental value of acquiring structures in different areas of the Lower Meramec Basin. While acquiring 100% of the floodplain is the most effective recommendation from an environmental perspective, it lacks the simplicity that the economic and social considerations take into account. In order to balance environmental conditions with floodplain inhabitation, this study divided the structure inventory down into multiple hubs to rank and determine what specific areas of the Lower Meramec Basin provided the highest environmental benefit relative to other areas in the basin. This hub analysis

is further described in Section 2.5.5. Hubs with areas with significant environmental impacts/potential benefits were provided additional rationale when determining flood mitigation recommendations. The criteria used to evaluate the habitat in different areas of the Lower Meramec Basin is further described in the next four sections.

2.5.1 Floodplain Connectivity

Connectivity has multiple definitions in the context of aquatic and terrestrial habitat. Potential criteria for consideration in the strategic selection of flood buyout projects, connectivity can be subdivided into the following factors:

- 1) Floodplain connectivity – Lateral connectivity of the river or stream onto the floodplain. Natural periodic flooding onto the floodplain brings sediment, organic matter, and nutrients which support the fish, wildlife, and plants that live in and along the floodplain. Floodplains also provide essential spawning and rearing habitat for multiple fish and aquatic species. Floodplain connectivity also improves water quality and slows down floodwaters.
- 2) Riparian habitat connectivity – Riparian (streamside) habitats play several important roles. They are important corridors for wildlife movement, provide protective cover for animals visiting the streams as a water source, regulate water temperature by shading streams during hot summer months, provide bank stability, and filter pollutants from adjacent land.
- 3) Migratory connectivity – As noted above, riparian habitats are important for wildlife. The Meramec River Basin plays a role in migration across the state and region by providing stopover locations for waterbirds, spawning and rearing habitat for multiple fish species, and transitional zone between upland and bottomland areas for terrestrial species.
- 4) Aquatic connectivity – Connectivity in the context of aquatic habitat relates to the longitudinal connectivity of the riverbed or streambed. Dams, low water crossings that behave like dams, and undersized culverts can reduce fish migration and isolate populations from important habitat, such as spawning and rearing habitat. A project that removes a fish passage barrier (e.g., flood buyout eliminates the need for a driveway or road across the creek and so the driveway could subsequently be removed) would increase longitudinal aquatic connectivity.

2.5.2 Endangered Species or Species of Conservation Concern

The U.S. Fish and Wildlife Service (USFWS) oversees the implementation of the Endangered Species Act, which identifies species that are Threatened or Endangered (listed species) and Critical Habitat necessary for the conservation of the species. In addition, the Missouri Department of Conservation (MDC) also ranks species of conservation concern (SCC) within the state. The list is updated annually and available online. The environmental considerations involved attention to areas that included:

- 1) Current and/or Historical Locations – The USFWS and MDC maintain occurrence records for listed and SCC species. Locations of listed and SCC species within or near-to potential buyout locations will be evaluated.

- 2) Critical Habitat – The USFWS can designate Critical Habitat for listed species, which are areas that contain specific attributes critical to the conservation of a listed species. Although not all listed species have Critical Habitat designations, this factor will be prioritized when evaluating potential buyout locations.

2.5.3 Priority Conservation/Natural Areas

Buyouts adjacent to natural areas and in priority areas for conservation provide multiple benefits. Floodplain habitat is exceptionally high in value for fish and wildlife providing a rich resource of food, water, and essential habitat. As natural areas increase in size, they typically increase in value for wildlife and host more types of fish and wildlife that are intolerant of smaller habitat patches. Natural areas also provide recreational benefits including wildlife watching, angling, and hunting. Floodplains with intact natural vegetation slow down and absorb flood and stormwaters, acting as natural sponges which results in flood risk reduction. In addition, they reduce sediment and nutrients in the water by filtering nutrients from the stormwater and allowing sediment to settle out of flood waters on the floodplain. This in turn improves the water quality of drinking water. The environmental considerations evaluated included:

- 1) Public Land – Projects directly adjacent or impacting downstream public conservation land (e.g., MDC Conservation Area, State Park, Wildlife Refuge, National Park, National Forest, local parks or trails)
- 2) Missouri Natural Areas Program – Projects adjacent to or impacting downstream designated Missouri Natural Areas, which aim to identify and conserve unique natural habitats and features in Missouri.
- 3) Priority Watersheds – State and federal agencies have identified several priority watersheds for their work. Examples include the Big River (Multi-agency), Mahan’s Creek Comprehensive Conservation Strategy (MDC), Big Barren Creek (USFS, TNC), State Wildlife Action Plan Meramec and Big River Aquatic Conservation Opportunity Areas (MDC).
- 4) East-West Gateway Regional Ecological Significance – Projects adjacent to East-West Gateway Council of Governments analysis ranking individual patches of natural and semi-natural vegetation using a suite of attribute variables important to ecological significance

2.5.4 State Nutrient Reduction/Water Quality

Excess nutrients degrade water quality for people and wildlife both locally and downstream, as waters eventually enter the Gulf of Mexico. Floodplains can provide significant reduction of nutrients, including nitrogen and phosphorus, as well as sediment carried in by surface waters via floodplain inundation and ecological assimilation (e.g., deposition, denitrification of runoff from stormwaters). Floodplains absorb and slowdown flood and stormwaters, allowing nutrients and sediments to settle out of the water onto the floodplain. In turn, this protects drinking water and intakes and can reduce water treatment costs.

2.5.5 Environmental Hub Analysis

Hubs are a designation given to a group of structures within the study area that meet several engineering, economic, social, and environmental criteria. Hubs are a way of grouping structures to better view environmental GIS data in each of the categories previously described to improve formulation of holistic flood mitigation recommendations. The size of the hubs were designated to be less than 50 acres in size to ensure that the environmental criteria applied impacted the entire hub rather than a small portion of one. The hub analysis resulted in 13 areas across the Lower Meramec Basin that met the four criteria mentioned below:

- 1) Flood frequency – hubs were located in areas with high flood frequency (more frequent than the 1% AEP flood event)
- 2) Flood magnitude – hubs were located in areas experiencing significant (greater than 3 feet) flood depths during the 1% AEP event
- 3) Structure density – hubs were located in areas with dense groupings of structures, typically where existing neighborhoods existed
- 4) Existing wetlands or open space – hubs were located in areas that had existing open space or wetland land cover located within neighboring parcels



Figure 6. Pacific Hub 1 & 2 (With 1% AEP Overlay)

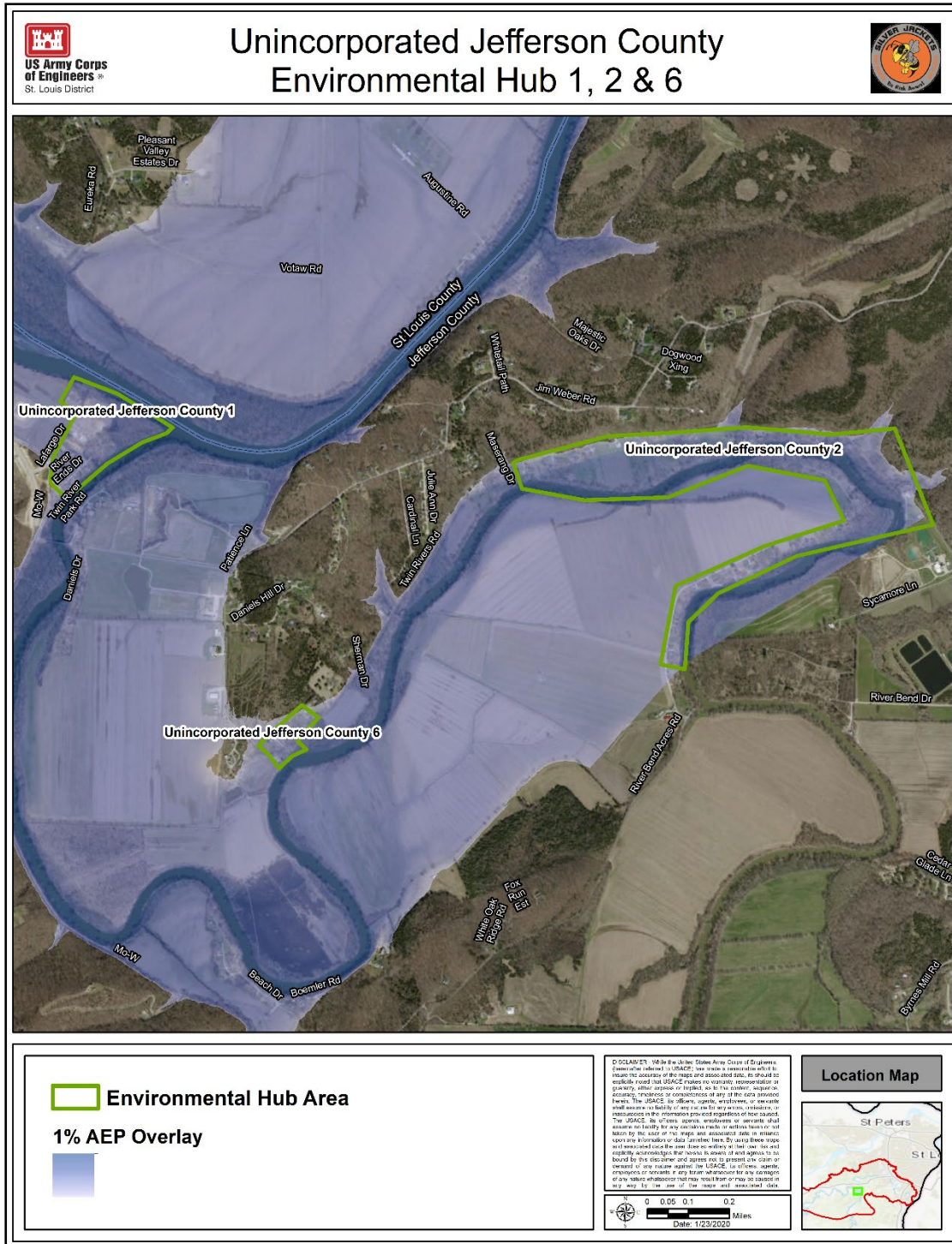


Figure 7. Unincorporated Jefferson County Hub 1, 2 & 6 (With 1% AEP Overlay)



Figure 8. Unincorporated Jefferson County Hub 3, 4 & 5 (With 1% AEP Overlay)



Figure 9. Unincorporated St. Louis County Hub (With 1% AEP Overlay)



Figure 11. Arnold Hubs 1 & 2 (With 1% AEP Overlay)

2.5.6 Environmental Hub Analysis

To perform the environmental hub analysis, thirteen GIS layers were overlaid with each individual hub to determine if the area had the environmental evaluation criteria present to justify a high (present) or low (absent) rating. The following GIS layers and sources were utilized for the environmental analysis to represent the environmental considerations previously referenced:

- 1) Floodplain Connectivity
 - a. Riparian Zones (EPA)
 - b. Missouri Department of Conservation Opportunity Areas (MDC)
 - c. Ducks Unlimited Focus Areas (DU)
 - d. National Fish Habitat Action Plan (USGS)
 - e. Important Bird Areas (National Audubon Society)
 - f. Key Bird Habitat (American Bird Conservancy)
 - g. Floodplain Restoration Ranking (East West Gateway)
 - h. Wetland Importance Ranking (East West Gateway)
- 2) Endangered Species or Species of Conservation Concern
 - a. Missouri Natural Heritage Program (MDC)
- 3) Priority Conservation/Natural Areas
 - a. Protected Areas of the United States (USGS)
 - b. Great Rivers Greenway Existing Infrastructure (Great Rivers Greenway)
 - c. Ecological Significance Ranking (East West Gateway)
- 4) State Nutrient Reduction/Water Quality
 - a. Meramec River Basin Soil & Water Assessment Tool model (TNC)

In order to further rank and sort the evaluation criteria, the environmental GIS data was sorted into the four environmental considerations and their subcategories:

- 1) Floodplain Connectivity
 - a. Riparian Zones
 - b. Wetland/Floodplain Ranking
 - c. Existing Habitat
- 2) Endangered Species or Species of Conservation Concern
 - a. Endangered Species
- 3) Priority Conservation/Natural Areas
 - a. Public Lands Adjacency
 - b. Ecological Significance Ranking
- 4) State Nutrient Reduction/Water Quality
 - a. Areas ranked in the top 20% for Sediment, Phosphorous, or Nitrogen levels
 - b. Areas ranked in the top 20% for Accumulated Sediment

A total amount of 400 points were allocated to the four environmental evaluation criteria, with additional points given to the floodplain connectivity category given its importance and direct relationship with open space after structures are acquired. The water quality category was discounted due to its smaller impact from structure buyouts. The total amount of points were only created to provide a weighted value, and did not serve any other purpose. The points are allocated as follows:

- 1) Floodplain Connectivity – 140 points
- 2) Endangered Species or Species of Conservation Concern – 100 points
- 3) Priority Conservation/Natural Areas – 100 points
- 4) State Nutrient Reduction/Water Quality – 60 points

Each of the subcategories (previously described on the prior page) informed from the GIS layers were equally weighted to determine the amount of total points each of the environmental evaluation criteria would receive for each hub. Table 2 shows the results of the environmental rankings.

A hub could receive a maximum of 400 points, and was categorized between high (300 – 400), medium (150 – 300), and low (0 – 150). The categorizations were determined after analyzing natural break points between other hubs. The hubs with the highest environmental ranking for acquisition purposes included Pacific 1, Unincorporated Jefferson County 1, Unincorporated St. Louis County 1, and Fenton 2. The hubs with a moderate amount of environmental rationale for acquisition included Pacific 2, Unincorporated Jefferson County 2 and 6, Fenton 1, and Arnold 1 & 2. The hubs with the lowest amount of environmental rationale for acquisition are Unincorporated Jefferson County 3, 4, and 5.

All of the hubs analyzed have environmental values which should be considered as communities implement the FMP. The environmental hub analysis was used as a way to prioritize the most environmentally sensitive areas that provide the most potential for restoration given acquisitions occurring in the area.

As previously discussed in the economic considerations section, it was assumed that if the cost estimate between acquisition, elevation, and floodproofing were close, the preferred recommendation would be to acquire the structure to permanently reduce flood risk to the property. The margin for this was set at $\pm 25\%$ of the cost based on economics alone. To quantify the benefit of the environmental hub analysis, structures located in the hubs with the highest environmental benefits received an additional 20% and structures located in hubs with moderate environmental benefits received an additional 10%. A sensitivity analysis was performed and found that increasing the percentage beyond 20% would most likely not result in a significant increase in the number of structures recommended for acquisition. In effect, a structure located in a hub with the highest environment benefit would not be recommended for acquisition if its cost was within 45% of elevation or floodproofing.

The environmental considerations for this study ended with the results of the hub analysis. It is outside of the scope of effort for this study to make recommendations or provide additional rationale for acquisitions based on assumed post-acquisition activity. Post-acquisition open space has many opportunities for environmental restoration, some of which require some form of

investment. It is the responsibility of the municipalities to prioritize any post-acquisition actions as it relates to using open space.

Table 2. Environmental Analysis Ranking Results

Hub Name	RANKINGS													
	Pacific 1	Pacific 2	Jeff Co 1	Jeffco 2	Jeff Co 3	Jeff Co 4	Jeff Co 5	Jeff Co 6	STL 1	Fenton 1	Fenton 2	Arnold 1	Arnold 2	
Environmental Evaluation Criteria	XID 1	XID13	XID 2	XID 3	XID 7	XID 8	XID 9	XID 12	XID 4	XID 5	XID 6	XID 10	XID 11	
Connectivity	140	93	140	93	47	47	47	47	140	93	93	93	93	
<i>Riparian Zone</i>	High	High	High	High	High	High	High	High	High	High	High	High	High	
<i>Wetland/Floodplain Ranking</i>	High	High	High	Low	Low	Low	Low	Low	High	Low	Low	High	High	
<i>Existing Habitat</i>	High	Low	High	High	Low	Low	Low	Low	High	High	High	Low	Low	
Endangered Species	100	0	100	100	0	0	0	100	100	0	100	0	0	
<i>Endangered Species</i>	High	Low	High	High	Low	Low	Low	High	High	Low	High	Low	Low	
Priority Conservation/Natural Areas	100	100	50	50	0	0	0	50	100	50	50	100	100	
<i>Public Lands Adjacency</i>	High	High	Low	Low	Low	Low	Low	Low	High	High	High	High	High	
<i>Ecological Significance Ranking</i>	High	High	High	High	Low	Low	Low	High	High	Low	Low	High	High	
Water Quality	30	0	60	0	0	0	0	0	60	30	60	30	30	
<i>Top 20% for SPN</i>	Low	Low	High	Low	Low	Low	Low	Low	High	High	High	Low	Low	
<i>Top 20% for Accumulated Sediment</i>	High	Low	High	Low	Low	Low	Low	Low	High	Low	High	High	High	
Total Score	370	193	350	243	47	47	47	197	400	173	303	223	223	

3 1% AEP Flood Event Mitigation Recommendations

In November of 2018, the USACE National Nonstructural Committee (NNC) performed detailed on-site assessments of 17 structures within the Lower Meramec Basin. The NNC provided detailed assessments and recommendations for nonstructural measures for each structure. The Floodplain Management Plan considered the recommendations made by the NNC to incorporate its engineering recommendations to the rest of the structures in the 1% AEP floodplain. Some structures received different recommendations than what the NNC recommended based on the other economic, social, and environmental considerations previously described. More information and the results of the site visit are located in Appendix D of the Floodplain Management Plan.

The nonstructural recommendations provided by this study for the 1% AEP floodplain have been sorted by municipality and are shown in Enclosure 1. The list includes structural attributes such as appraised value, address, and elevation data. Municipalities may request a detailed structure inventory for their community that includes additional attributes. Mitigation recommendations in bold font designate a recommendation by the NNC during the site visit. Mitigation costs were prepared using parametric formulas, and individual cost estimates should be prepared to better inform budgeting for implementation of the recommendations by each community's government.

Of the structures located within the 1% AEP floodplain in the Lower Meramec Basin, 17% (161) are recommended to be elevated, 13% (120) to be acquired, 27% (254) to be relocated, 38% (360) to be floodproofed, and the rest (5% or 47 structures) had inundation below the first floor and therefore only required either a sewer check valve or relocation of utilities.

ENCLOSURE 1

CITY OF ARNOLD LIST OF NONSTRUCTURAL MITIGATION RECOMMENDATIONS								
XID	Parcel ID	Address	Appraised Value	First Floor Elevation (ft.)	1% Flood Elevation (ft.)	1% AEP Flood Depth Relative to First Floor (ft.)	Mitigation Recommendation	Mitigation Cost
271	180280100100303	2836 FANNIE DR 63010	\$ 95,100	424.6	418.1	-6.5	Fill subfloor, sewer check valve	\$ 39,885
289	1802802001003	2446 SHADY DR 63010	\$ 139,600	422.2	418.6	-3.7	Fill subfloor, sewer check valve	\$ 24,024
301	180280200100316	600 SHADY CT 63010	\$ 112,400	421.9	418.6	-3.3	Fill subfloor, sewer check valve	\$ 23,477
292	180280200100303	613 SHADY CT 63010	\$ 103,300	422.2	419.0	-3.2	Fill subfloor, sewer check valve	\$ 23,477
298	180280200100309	606 SHADY CT 63010	\$ 112,400	421.7	418.5	-3.1	Fill subfloor, sewer check valve	\$ 23,477
303	180280200100318	2452 SHADY DR 63010	\$ 113,400	421.6	418.5	-3.0	Fill subfloor, sewer check valve	\$ 23,477
291	180280200100302	607 SHADY CT 63010	\$ 103,400	421.8	418.8	-3.0	Fill subfloor, sewer check valve	\$ 23,477
496	01502104001025-026	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	422.4	419.8	-2.6	Relocation	\$ 7,200
269	180280100100301	2822 FANNIE DR 63010	\$ 54,500	420.7	418.1	-2.5	Sewer check valve	\$ 1,600
416	01502104001025-001	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	422.2	419.8	-2.5	Relocation	\$ 7,200
563	01502104001025-094	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	422.1	419.7	-2.4	Relocation	\$ 7,200

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404	015021040010 30-122	501 A ST 63010	\$ 7,200	421.4	419.1	-2.4	Relocation	\$ 7,200
405	150210400103 0	501 A ST 63010	\$ 15,270	421.1	418.7	-2.3	Sewer check valve	\$ 1,600
516	015021040010 25-046	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.9	419.5	-2.3	Relocation	\$ 7,200
302	180280200100 317	2457 SHADY DR 63010	\$ 112,200	421.0	418.7	-2.3	Fill subfloor, sewer check valve	\$ 23,477
396	015021040010 30-108	501 A ST 63010	\$ 7,200	421.0	418.8	-2.2	Relocation	\$ 7,200
528	015021040010 25-059	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	422.0	419.8	-2.1	Relocation	\$ 7,200
394	015021040010 30-112	501 A ST 63010	\$ 7,200	420.9	418.8	-2.1	Relocation	\$ 7,200
426	015021040010 25-132	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.9	419.8	-2.1	Relocation	\$ 7,200
538	015021040010 25-069	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.8	419.7	-2.0	Relocation	\$ 7,200
522	015021040010 25-053	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.8	419.8	-2.0	Relocation	\$ 7,200
424	015021040010 25-130	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.8	419.9	-2.0	Relocation	\$ 7,200
420	015021040010 25-001	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.7	419.7	-1.9	Relocation	\$ 7,200
564	015021040010 25-095	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.7	419.8	-1.9	Relocation	\$ 7,200
560	015021040010 25-091	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.6	419.7	-1.9	Relocation	\$ 7,200
487	015021040010 25-017	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.6	419.8	-1.8	Relocation	\$ 7,200
443	015021040010 25-119	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.7	419.9	-1.8	Relocation	\$ 7,200
539	015021040010 25-070	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.6	419.8	-1.8	Relocation	\$ 7,200
517	015021040010 25-047	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.6	419.8	-1.8	Relocation	\$ 7,200

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493	015021040010 25-023	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.5	419.8	-1.7	Relocation	\$ 7,200
541	015021040010 25-072	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.5	419.8	-1.7	Relocation	\$ 7,200
472	015021040010 25-002	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.6	419.9	-1.7	Relocation	\$ 7,200
536	015021040010 25-067	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.5	419.9	-1.6	Relocation	\$ 7,200
490	015021040010 25-020	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.5	419.8	-1.6	Relocation	\$ 7,200
520	015021040010 25-051	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.4	419.8	-1.6	Relocation	\$ 7,200
117	150210300101 3	490 ELECTRA DR 63010	\$ 69,900	421.7	420.1	-1.6	Fill subfloor, relocate utilities, sewer check valve	\$ 28,673
540	015021040010 25-071	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.2	419.6	-1.6	Relocation	\$ 7,200
120	150210300101 6	2270 STARLING AIRPORT RD 63010	\$ 58,500	421.8	420.2	-1.6	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477
259	150210400301 1	2550 CAROL LN 63010	\$ 66,600	421.4	419.8	-1.5	Fill subfloor, relocate utilities, sewer check valve	\$ 39,703
543	015021040010 25-074	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.3	419.8	-1.5	Relocation	\$ 7,200
413	015021040010 25-113	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.3	419.8	-1.5	Relocation	\$ 7,200
388	015021040010 30-113	501 A ST 63010	\$ 7,200	420.3	418.8	-1.5	Relocation	\$ 7,200
462	015021040010 25-136	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.3	419.8	-1.5	Relocation	\$ 7,200
167	150210300301 301	2237 STARLING AIRPORT RD 63010	\$ 73,900	421.4	420.0	-1.4	Fill subfloor, relocate utilities, sewer check valve	\$ 25,893
484	015021040010 25-014	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.2	419.7	-1.4	Relocation	\$ 7,200
485	015021040010 25-015	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.2	419.8	-1.4	Relocation	\$ 7,200
119	150210300101 5	2266 STARLING AIRPORT RD 63010	\$ 60,300	421.3	419.9	-1.4	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477

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534	015021040010 25-065	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.2	419.8	-1.4	Relocation	\$ 7,200
457	015021040010 25-001	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.2	419.8	-1.4	Relocation	\$ 7,200
513	015021040010 25-043	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.2	419.8	-1.3	Relocation	\$ 7,200
79	150210200407 5	2277 BOEING DR 63010	\$ 67,000	421.4	420.1	-1.3	Fill subfloor, relocate utilities, sewer check valve	\$ 24,571
363	190320200103 9	32 PLEASANT VALLEY TER 63010	\$ 57,700	418.4	417.1	-1.3	Fill subfloor, sewer check valve	\$ 5,147
62	150210200405 4	2260 PIPER DR 63010	\$ 83,500	421.3	420.0	-1.3	Fill subfloor, relocate utilities, sewer check valve	\$ 30,770
110	150210300100 6	2313 CESSNA DR 63010	\$ 63,500	421.2	420.0	-1.3	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477
51	150210200404 1	2261 PIPER DR 63010	\$ 75,600	421.4	420.1	-1.3	Fill subfloor, relocate utilities, sewer check valve	\$ 33,687
374	015021040010 30-89	501 A ST 63010	\$ 7,200	420.0	418.7	-1.3	Relocation	\$ 7,200
466	015021040010 25-124	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.0	419.7	-1.2	Relocation	\$ 7,200
137	150210300104 0	491 PINE CT 63010	\$ 55,300	421.1	419.9	-1.2	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477
122	150210300101 8	2282 STARLING AIRPORT RD 63010	\$ 58,200	421.5	420.2	-1.2	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477
52	150210200404 2	476 ELECTRA DR 63010	\$ 82,900	421.3	420.1	-1.2	Fill subfloor, relocate utilities, sewer check valve	\$ 32,593
373	015021040010 30-64	501 A ST 63010	\$ 7,200	419.9	418.6	-1.2	Relocation	\$ 7,200
118	150210300101 4	2260 STARLING AIRPORT RD 63010	\$ 53,900	421.2	420.0	-1.2	Fill subfloor, relocate utilities, sewer check valve	\$ 19,466
114	150210300101 0	2280 PIPER DR 63010	\$ 64,900	421.1	419.9	-1.2	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477
70	150210200406 4	2270 CESSNA DR 63010	\$ 68,600	421.3	420.1	-1.2	Fill subfloor, relocate utilities, sewer check valve	\$ 27,534
435	015021040010 25-135	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.0	419.8	-1.2	Relocation	\$ 7,200

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146	150210300105 5	2281 PIPER DR 63010	\$ 80,600	421.1	419.9	-1.2	Fill subfloor, relocate utilities, sewer check valve	\$ 29,129
441	015021040010 25-103	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.9	419.7	-1.1	Relocation	\$ 7,200
57	150210200404 7	430 ELECTRA DR 63010	\$ 71,800	421.6	420.4	-1.1	Fill subfloor, relocate utilities, sewer check valve	\$ 24,571
547	015021040010 25-078	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.9	419.8	-1.1	Relocation	\$ 7,200
222	150210400204 1	393 JUNE DR 63010	\$ 61,900	420.9	419.8	-1.1	Fill subfloor, relocate utilities, sewer check valve	\$ 25,847
85	150210200408 1	2280 BOEING DR 63010	\$ 81,500	421.1	420.0	-1.1	Fill subfloor, relocate utilities, sewer check valve	\$ 29,858
434	015021040010 25-134	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	421.1	420.0	-1.1	Relocation	\$ 7,200
480	015021040010 25-010	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.9	419.8	-1.1	Relocation	\$ 7,200
532	015021040010 25-063	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.9	419.8	-1.1	Relocation	\$ 7,200
86	150210200408 4	2284 BOEING DR 63010	\$ 71,100	421.3	420.2	-1.1	Fill subfloor, relocate utilities, sewer check valve	\$ 26,759
134	150210300103 6	490 SPRUCE CT 63010	\$ 64,600	421.1	420.0	-1.1	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477
556	015021040010 25-087	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.8	419.8	-1.1	Relocation	\$ 7,200
469	015021040010 25-111	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.9	419.8	-1.1	Relocation	\$ 7,200
495	015021040010 25-025	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.8	419.8	-1.0	Relocation	\$ 7,200
515	015021040010 25-045	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.8	419.7	-1.0	Relocation	\$ 7,200
454	015021040010 25-107	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.8	419.8	-1.0	Relocation	\$ 7,200
411	015021040010 25-001	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.9	419.9	-1.0	Relocation	\$ 7,200
124	150210300102 1	2306 STARLING AIRPORT RD 63010	\$ 66,200	421.1	420.1	-1.0	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477

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552	015021040010 25-083	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.8	419.8	-1.0	Relocation	\$ 7,200
427	015021040010 25-001	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.7	419.7	-1.0	Relocation	\$ 7,200
509	015021040010 25-039	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.8	419.8	-1.0	Relocation	\$ 7,200
448	015021040010 25-001	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.7	419.7	-1.0	Relocation	\$ 7,200
106	150210300100 2	2322 CESSNA DR 63010	\$ 65,800	421.0	420.0	-1.0	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477
551	015021040010 25-082	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.6	419.7	-0.9	Relocation	\$ 7,200
382	015021040010 30-125	501 A ST 63010	\$ 7,200	419.6	418.7	-0.9	Relocation	\$ 7,200
121	150210300101 7	2274 STARLING AIRPORT RD 63010	\$ 60,100	420.9	420.1	-0.9	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477
48	150210200403 8	485 ELECTRA DR 63010	\$ 70,600	420.9	420.1	-0.9	Fill subfloor, relocate utilities, sewer check valve	\$ 25,300
524	015021040010 25-055	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.6	419.8	-0.8	Relocation	\$ 7,200
88	150210200408 6	2286 CESSNA DR 63010	\$ 65,900	420.9	420.1	-0.8	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477
473	015021040010 25-003	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.8	420.0	-0.8	Relocation	\$ 7,200
357	190320200102 5	76 PLEASANT VALLEY TER 63010	\$ 68,800	418.0	417.2	-0.8	Fill subfloor, relocate utilities, sewer check valve	\$ 31,134
370	015021040010 30-106	501 A ST 63010	\$ 7,200	419.4	418.7	-0.7	Relocation	\$ 7,200
78	150210200407 4	2276 BOEING DR 63010	\$ 72,300	420.8	420.1	-0.7	Fill subfloor, relocate utilities, sewer check valve	\$ 28,309
440	015021040010 25-118	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.4	419.8	-0.7	Relocation	\$ 7,200
486	015021040010 25-016	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.4	419.8	-0.7	Relocation	\$ 7,200
160	150210300219 6	2261 STARLING AIRPORT RD 63010	\$ 59,700	420.6	420.0	-0.7	Sewer check valve	\$ 1,600

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69	1502102004063	2269 BOEING DR 63010	\$ 68,000	420.7	420.1	-0.6	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477
50	1502102004040	484 ELECTRA DR 63010	\$ 70,100	419.9	419.3	-0.6	Fill subfloor, relocate utilities, sewer check valve	\$ 28,901
90	1502102004088	2290 CESSNA DR 63010	\$ 72,600	420.7	420.1	-0.6	Fill subfloor, relocate utilities, sewer check valve	\$ 28,400
91	1502102004089	2289 BOEING DR 63010	\$ 64,300	420.7	420.2	-0.6	Fill subfloor, relocate utilities, sewer check valve	\$ 23,249
270	180280100100302	2828 FANNIE DR 63010	\$ 76,200	418.6	418.0	-0.6	Sewer check valve	\$ 1,600
470	01502104001025-138	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.3	419.7	-0.6	Relocation	\$ 7,200
36	1502102004026	434 CONSTELLATION DR 63010	\$ 71,400	420.9	420.3	-0.6	Fill subfloor, relocate utilities, sewer check valve	\$ 25,118
542	01502104001025-073	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.3	419.8	-0.6	Relocation	\$ 7,200
555	01502104001025-086	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.3	419.8	-0.6	Relocation	\$ 7,200
353	1903201002030	35 PLEASANT VALLEY TER 63010	\$ 55,300	417.7	417.2	-0.6	Fill subfloor, sewer check valve	\$ 5,067
145	1502103001054	2283 PIPER DR 63010	\$ 68,200	420.5	419.9	-0.6	Fill subfloor, relocate utilities, sewer check valve	\$ 24,571
49	1502102004039	491 ELECTRA DR 63010	\$ 66,800	420.5	420.0	-0.5	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477
423	01502104001025-129	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.3	419.8	-0.5	Relocation	\$ 7,200
366	1903202001042	50 PLEASANT VALLEY TER 63010	\$ 68,700	417.5	417.0	-0.5	Fill subfloor, relocate utilities, sewer check valve	\$ 31,134
437	01502104001025-102	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.2	419.7	-0.5	Relocation	\$ 7,200
107	1502103001003	2327 CESSNA DR 63010	\$ 66,100	420.5	420.0	-0.5	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477
475	01502104001025-005	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.2	419.8	-0.4	Relocation	\$ 7,200
196	1502104002010	395 KATHRYN LN 63010	\$ 61,300	420.2	419.8	-0.4	Sewer check valve	\$ 1,600

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143	150210300105 2	2287 PIPER DR 63010	\$ 42,300	420.3	419.9	-0.4	Fill subfloor, relocate utilities, sewer check valve	\$ 30,770
207	150210400202 4	394 KATHRYN LN 63010	\$ 58,400	420.2	419.8	-0.4	Sewer check valve	\$ 1,600
97	150210200409 301	2315 BOEING DR 63010	\$ 75,300	420.4	420.1	-0.4	Fill subfloor, relocate utilities, sewer check valve	\$ 25,528
149	150210300105 8	2271 PIPER DR 63010	\$ 66,300	420.3	420.0	-0.3	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477
247	150210400207 4	421 NANCY LN 63010	\$ 94,900	420.2	419.9	-0.3	Fill subfloor, relocate utilities, sewer check valve	\$ 47,428
262	150210400302 2	2564 LILL LN 63010	\$ 65,600	419.9	419.5	-0.3	Fill subfloor, sewer check valve	\$ 6,037
456	015021040010 25-108	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.1	419.8	-0.3	Relocation	\$ 7,200
127	150210300102 7	2326 STARLING AIRPORT RD 63010	\$ 61,800	420.2	419.9	-0.3	Fill subfloor, relocate utilities, sewer check valve	\$ 23,477
358	190320200102 6	72 PLEASANT VALLEY TER 63010	\$ 77,500	417.4	417.2	-0.2	Fill subfloor, relocate utilities, sewer check valve	\$ 29,676
72	150210200406 6	2270 PIPER DR 63010	\$ 92,100	420.1	419.9	-0.2	Fill subfloor, relocate utilities, sewer check valve	\$ 36,581
102	150210200409 401	2318 CESSNA DR 63010	\$ 83,100	420.2	420.1	-0.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 48,078
101	150210200409 4	2314 CESSNA DR 63010	\$ 65,000	420.1	420.0	-0.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 48,078
21	150210200204 0	462 KELLER DR 63010	\$ 44,000	420.2	420.0	-0.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 51,951
442	015021040010 25-104	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.0	419.8	-0.1	Relocation	\$ 7,200
112	150210300100 8	2286 PIPER DR 63010	\$ 77,500	420.1	420.0	-0.1	Floodproof, sewer check valve	\$ 23,987
113	150210300100 9	2284 PIPER DR 63010	\$ 75,600	420.3	420.1	-0.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 69,472
184	150210400102 1	2335 BOEING DR 63010	\$ 125,900	420.2	420.1	-0.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 89,852
125	150210300102 3	2314 STARLING AIRPORT RD 63010	\$ 61,100	420.0	419.9	-0.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 45,865

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451	015021040010 25-120	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	420.0	419.9	-0.1	Relocation	\$ 7,200
123	150210300101 9	493 ELM CT 63010	\$ 61,300	419.9	419.8	-0.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 45,865
430	015021040010 25-133	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.9	419.8	-0.1	Relocation	\$ 7,200
115	150210300101 1	2276 PIPER DR 63010	\$ 65,400	420.0	420.0	0.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 49,553
96	150210200409 3	2311 BOEING DR 63010	\$ 65,400	420.2	420.2	0.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 47,709
521	015021040010 25-052	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.8	419.8	0.0	Relocation	\$ 7,200
453	015021040010 25-122	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.8	419.8	0.0	Relocation	\$ 7,200
261	150210400302 0	2580 LILL LN 63010	\$ 50,600	419.4	419.5	0.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 39,225
508	015021040010 25-038	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.9	419.9	0.0	Relocation	\$ 7,200
116	150210300101 2	2269 PIPER DR 63010	\$ 73,000	420.0	420.0	0.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 49,553
104	150210300100 101	2330 CESSNA DR 63010	\$ 76,600	419.9	420.0	0.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 45,031
98	150210200409 302	2319 BOEING DR 63010	\$ 73,300	419.9	420.0	0.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 47,709
477	015021040010 25-007	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.6	419.7	0.1	Relocation	\$ 7,200
258	150210400209 2	420 NANCY LN 63010	\$ 80,900	419.6	419.8	0.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 53,242
387	015021040010 30-117	501 A ST 63010	\$ 7,200	418.6	418.8	0.1	Relocation	\$ 7,200
407	015021040010 25-112	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.7	419.8	0.1	Relocation	\$ 7,200
100	150210200409 304	2327 BOEING DR 63010	\$ 77,000	419.9	420.0	0.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 47,581
144	150210300105 3	2285 PIPER DR 63010	\$ 10,100	419.9	420.0	0.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 95,847

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384	015021040010 30-128	501 A ST 63010	\$ 7,200	418.7	418.8	0.2	Relocation	\$ 7,200
111	150210300100 7	2291 CESSNA DR 63010	\$ 72,200	419.8	420.0	0.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 56,008
439	015021040010 25-117	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.7	419.9	0.2	Relocation	\$ 7,200
285	180280100201 801		\$ 19,600	418.4	418.6	0.2	Floodproof, sewer check valve	\$ 23,987
385	015021040010 30-130	501 A ST 63010	\$ 7,200	418.5	418.7	0.2	Relocation	\$ 7,200
500	015021040010 25-030	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.6	419.8	0.3	Relocation	\$ 7,200
395	015021040010 30-107	501 A ST 63010	\$ 7,200	418.4	418.7	0.3	Relocation	\$ 7,200
235	150210400205 8	392 JUNE DR 63010	\$ 72,400	419.4	419.7	0.3	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 53,242
527	015021040010 25-058	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.5	419.7	0.3	Relocation	\$ 7,200
467	015021040010 25-137	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.5	419.7	0.3	Relocation	\$ 7,200
322	180330300102 201	3290 TENBROOK RD 63010	\$ 98,900	416.8	417.1	0.3	Floodproof, sewer check valve	\$ 29,771
92	150210200409 0	2288 BOEING DR 63010	\$ 80,100	419.7	420.0	0.3	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 62,694
40	150210200403 0	427 ELECTRA DR 63010	\$ 73,300	419.6	420.0	0.3	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 56,608
141	150210300105 0	2291 PIPER DR 63010	\$ 64,600	419.6	420.0	0.3	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 48,078
148	150210300105 7	2275 PIPER DR 63010	\$ 80,100	419.8	420.2	0.3	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 57,853
126	150210300102 4	491 OAK CT 63010	\$ 60,800	419.6	419.9	0.4	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 45,865
105	150210300100 103	2333 CESSNA DR 63010	\$ 74,000	419.7	420.1	0.4	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 48,078
365	190320200104 1	40 PLEASANT VALLEY TER 63010	\$ 69,000	416.8	417.2	0.4	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 60,251

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147	150210300105 6	2279 PIPER DR 63010	\$ 80,100	419.5	419.9	0.4	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 60,681
131	150210300103 3	485 SPRUCE CT 63010	\$ 62,800	419.6	420.0	0.4	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 45,865
89	150210200408 7	2287 CESSNA DR 63010	\$ 69,400	419.4	419.9	0.4	Floodproof, sewer check valve	\$ 30,050
449	015021040010 25-001	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.4	419.8	0.4	Relocation	\$ 7,200
432	015021040010 25-100	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.3	419.8	0.5	Relocation	\$ 7,200
375	015021040010 30-87	501 A ST 63010	\$ 7,200	418.2	418.7	0.5	Relocation	\$ 7,200
359	190320200102 8	68 PLEASANT VALLEY TER 63010	\$ 57,800	416.6	417.0	0.5	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 48,078
99	150210200409 303	2323 BOEING DR 63010	\$ 76,500	419.3	419.8	0.5	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 58,867
260	150210400301 2	2558 CAROL LN 63010	\$ 42,900	419.3	419.8	0.5	Floodproof, sewer check valve	\$ 28,278
584	150210300104 7	490 PINE CT 63010	\$ 250,000	419.2	419.8	0.6	Floodproof, sewer check valve	\$ 226,661
523	015021040010 25-054	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.0	419.6	0.6	Relocation	\$ 7,200
93	150210200409 2	2312 BOEING DR 63010	\$ 70,100	419.5	420.1	0.6	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 45,865
447	015021040010 25-148	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.2	419.8	0.6	Relocation	\$ 7,200
419	015021040010 25-114	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.2	419.8	0.6	Relocation	\$ 7,200
383	015021040010 30-126	501 A ST 63010	\$ 7,200	418.4	419.0	0.6	Relocation	\$ 7,200
481	015021040010 25-011	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.1	419.8	0.7	Relocation	\$ 7,200
458	015021040010 25-109	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.1	419.8	0.7	Relocation	\$ 7,200
417	015021040010 25-001	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	419.1	419.8	0.7	Relocation	\$ 7,200

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181	150210400101 4	2334 CESSNA DR 63010	\$ 88,600	419.4	420.1	0.7	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 47,317
138	150210300104 1	485 PINE CT 63010	\$ 57,800	419.1	419.8	0.8	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 45,865
185	150210400102 2	2331 BOEING DR 63010	\$ 97,400	419.2	420.0	0.8	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 45,911
436	015021040010 25-101	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.9	419.7	0.8	Relocation	\$ 7,200
130	150210300103 2	491 SPRUCE CT 63010	\$ 60,200	419.1	420.0	0.8	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 45,865
386	015021040010 30-131	501 A ST 63010	\$ 7,200	417.8	418.7	0.9	Relocation	\$ 7,200
354	190320100203 1	37 PLEASANT VALLEY TER 63010	\$ 57,500	416.3	417.2	0.9	Floodproof, sewer check valve	\$ 26,319
309	180280400101 2	121 VISTA DR 63010	\$ 70,300	416.4	417.4	0.9	Floodproof, fill subfloor, sewer check valve	\$ 36,143
128	150210300102 8	490 OAK CT 63010	\$ 59,400	419.0	419.9	1.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 45,865
476	015021040010 25-006	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.8	419.7	1.0	Relocation	\$ 7,200
409	015021040010 25-097	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.5	419.6	1.1	Relocation	\$ 7,200
135	150210300103 8	478 SPRUCE CT 63010	\$ 60,300	418.6	419.8	1.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 43,651
27	150210200401 7	431 CONSTELLATION DR 63010	\$ 11,000	419.2	420.3	1.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 103,916
531	015021040010 25-062	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.6	419.8	1.2	Relocation	\$ 7,200
421	015021040010 25-099	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.6	419.7	1.2	Relocation	\$ 7,200
95	150210200409 202	2320 BOEING DR 63010	\$ 76,500	418.9	420.1	1.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 49,830
94	150210200409 201	2316 BOEING DR 63010	\$ 69,200	418.8	419.9	1.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 49,830
461	015021040010 25-110	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.6	419.8	1.2	Relocation	\$ 7,200

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459	015021040010 25-146	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.6	419.8	1.2	Relocation	\$ 7,200
506	015021040010 25-036	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.6	419.9	1.2	Relocation	\$ 7,200
8	150210100302 7	2324 BOEING DR 63010	\$ 81,000	418.9	420.1	1.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 62,556
410	015021040010 25-126	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.5	419.7	1.3	Relocation	\$ 7,200
132	150210300103 4	479 SPRUCE CT 63010	\$ 55,000	418.8	420.1	1.3	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 52,504
414	015021040010 25-139	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.5	419.8	1.3	Relocation	\$ 7,200
483	015021040010 25-013	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.5	419.8	1.3	Relocation	\$ 7,200
444	015021040010 25-105	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.4	419.8	1.4	Relocation	\$ 7,200
464	015021040010 25-123	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.4	419.8	1.4	Relocation	\$ 7,200
415	015021040010 25-098	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.4	419.8	1.4	Relocation	\$ 7,200
182	150210400101 5	2338 CESSNA DR 63010	\$ 64,800	418.6	420.0	1.4	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 45,865
425	015021040010 25-131	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.5	419.9	1.4	Relocation	\$ 7,200
176	150210300503 9	536 MAPLE MEADOWS DR 63010	\$ 86,100	417.4	418.8	1.4	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 57,207
12	150210200201 1	446 MABEL DR 63010	\$ 72,500	418.9	420.4	1.4	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 68,827
180	150210400100 9	2343 CESSNA DR 63010	\$ 68,500	418.5	420.0	1.5	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 48,078
16	150210200202 4	447 MABEL DR 63010	\$ 65,800	418.7	420.2	1.5	Floodproof, fill subfloor, sewer check valve	\$ 43,179
482	015021040010 25-012	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.2	419.7	1.5	Relocation	\$ 7,200
438	015021040010 25-116	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.2	419.8	1.6	Relocation	\$ 7,200

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37	150210200402 7	426 CONSTELLATION DR 63010	\$ 81,700	418.7	420.3	1.7	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 59,144
140	150210300104 4	490 PINE CT 63010	\$ 58,900	417.9	419.6	1.7	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 45,865
468	015021040010 25-149	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.0	419.7	1.7	Relocation	\$ 7,200
455	015021040010 25-141	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.1	419.8	1.7	Relocation	\$ 7,200
368	190320200104 6	57 PLEASANT VALLEY TER 63010	\$ 65,600	415.2	417.0	1.7	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 45,865
431	015021040010 25-144	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.0	419.8	1.7	Relocation	\$ 7,200
525	015021040010 25-056	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	418.0	419.8	1.8	Relocation	\$ 7,200
367	190320200104 5	63 PLEASANT VALLEY TER 63010	\$ 90,500	415.5	417.3	1.8	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 72,423
10	150210100302 9	2330 BOEING DR 63010	\$ 75,400	418.3	420.2	1.9	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 64,861
412	015021040010 25-127	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	417.9	419.8	1.9	Relocation	\$ 7,200
183	150210400101 9	2343 BOEING DR 63010	\$ 11,000	417.9	419.9	1.9	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 74,544
450	015021040010 25-106	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	417.9	419.8	1.9	Relocation	\$ 7,200
9	150210100302 8	2326 BOEING DR 63010	\$ 76,200	418.0	420.0	2.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 49,830
418	015021040010 25-147	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	417.8	419.8	2.1	Relocation	\$ 7,200
529	015021040010 25-060	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	417.6	419.8	2.2	Relocation	\$ 7,200
142	150210300105 1	2289 PIPER DR 63010	\$ 10,100	417.7	419.9	2.2	Acquisition	\$ 114,462
492	015021040010 25-022	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	417.5	419.7	2.2	Relocation	\$ 7,200
445	015021040010 25-145	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	417.4	419.7	2.3	Relocation	\$ 7,200

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505	015021040010 25-035	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	417.5	419.8	2.3	Relocation	\$ 7,200
308	180280400100 6	2910 FANNIE DR 63010	\$ 107,400	415.8	418.1	2.4	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 44,389
446	015021040010 25-142	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	417.3	419.7	2.4	Relocation	\$ 7,200
429	015021040010 25-001	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	417.3	419.8	2.5	Relocation	\$ 7,200
26	150210200401 6	425 CONSTELLATION DR 63010	\$ 70,100	417.8	420.4	2.6	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 45,865
11	150210100303 1	2338 BOEING DR 63010	\$ 11,000	417.5	420.1	2.6	Acquisition	\$ 113,675
197	150210400201 1	383 KATHRYN LN 63010	\$ 9,900	417.1	419.8	2.6	Acquisition	\$ 54,900
428	015021040010 25-115	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	417.1	419.8	2.7	Relocation	\$ 7,200
471	015021040010 25-143	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	417.2	419.8	2.7	Relocation	\$ 7,200
39	150210200402 9	421 ELECTRA DR 63010	\$ 11,000	417.5	420.3	2.7	Acquisition	\$ 112,536
408	015021040010 25-125	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	416.9	419.8	2.9	Relocation	\$ 7,200
307	180280400100 5	2902 FANNIE DR 63010	\$ 66,600	414.7	417.7	3.0	Elevation	\$ 80,933
355	190320100203 3	41 PLEASANT VALLEY TER 63010	\$ 52,700	414.1	417.1	3.0	Elevation	\$ 48,776
422	015021040010 25-128	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	416.7	419.7	3.0	Relocation	\$ 7,200
460	015021040010 25-001	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	416.8	419.9	3.1	Relocation	\$ 7,200
319	180330200101 3	3106 TENBROOK RD 63010	\$ 128,700	414.1	417.2	3.1	Elevation	\$ 71,646
433	015021040010 25-140	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	416.5	419.7	3.2	Relocation	\$ 7,200
463	015021040010 25-001	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	416.8	420.2	3.4	Relocation	\$ 7,200

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208	150210400202 5	382 KATHRYN LN 63010	\$ 9,900	416.4	419.9	3.5	Acquisition	\$ 54,900
38	150210200402 8	2231 CONVAIR DR 63010	\$ 11,000	417.0	420.5	3.5	Acquisition	\$ 124,523
452	015021040010 25-121	1 STARLING COMMUNITY TRAILER CT 63010	\$ 7,200	416.1	419.9	3.8	Relocation	\$ 7,200
25	150210200401 3	2226 CONVAIR DR 63010	\$ 11,000	414.7	420.4	5.6	Acquisition	\$ 136,578
24	150210200401 0	2250 CONVAIR DR 63010	\$ 11,000	414.1	420.3	6.2	Acquisition	\$ 126,073
369	920090100100 101	100 DICKERMAN CT 63010	\$ 108,000	403.1	413.6	10.5	Elevation	\$ 25,539
TOTAL COST OF MITIGATION IN ARNOLD								\$ 6,850,445

CITY OF EUREKA LIST OF NONSTRUCTURAL MITIGATION RECOMMENDATIONS

XID	Parcel ID	Address	Appraised Value	First Floor Elevation (ft.)	1% Flood Elevation (ft.)	1% AEP Flood Depth Relative to First Floor (ft.)	Mitigation Recommendation	Mitigation Cost
2033	Unavailable	333 BALD HILL RD	\$ 989,800	454.6	450.5	-4.1	Sewer check valve	\$ 1,600
1978	Unavailable	138 S VIRGINIA AVE	\$ 119,300	452.5	450.4	-2.1	Fill subfloor, relocate utilities, sewer check valve	\$ 43,235
1938	Unavailable	3 SPRING RIVER RANCH RD	\$ 7,500	456.1	454.4	-1.7	Fill subfloor, relocate utilities, sewer check valve	\$ 8,984
3001	Unavailable	2 TRUITT DR	\$ 948,800	452.1	450.7	-1.5	Sewer check valve	\$ 1,600
2838	Unavailable	101 DREYER AVE	\$ 185,500	451.3	450.6	-0.8	Sewer check valve	\$ 1,600
1979	Unavailable	115 S CENTRAL AVE	\$ 383,200	451.1	450.7	-0.4	Sewer check valve	\$ 1,600
2980	Unavailable	102 JOE BOCCARDI LN	\$ 313,200	453.7	453.6	-0.1	Floodproof, sewer check valve	\$ 375,886
2839	Unavailable	113 DREYER AVE	\$ 92,300	450.5	450.6	0.1	Floodproof, sewer check valve	\$ 21,842
1907	Unavailable	811 BALD HILL RD	\$ 80,100	453.5	453.7	0.1	Floodproof, sewer check valve	\$ 26,086
1995	Unavailable	134 S VIRGINIA AVE	\$ 192,100	450.4	450.6	0.1	Floodproof, sewer check valve	\$ 106,400
2051	Unavailable	123 S CENTRAL AVE	\$ 230,200	450.4	450.5	0.2	Floodproof, sewer check valve	\$ 44,742
2053	Unavailable	1400 S OUTER RD	\$ 558,500	450.7	451.1	0.4	Floodproof, sewer check valve	\$ 127,528
2048	Unavailable	100 OLD TOWNE DR	\$ 638,500	450.3	450.9	0.6	Floodproof, sewer check valve	\$ 83,220
1909	Unavailable	1 SPRING RIVER RANCH RD	\$ 51,400	454.8	455.5	0.7	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 79,708
2025	Unavailable	127 S CENTRAL AVE	\$ 198,600	449.7	450.5	0.7	Floodproof, sewer check valve	\$ 44,742
2041	Unavailable	22 DREYER AVE	\$ 295,600	449.8	450.6	0.8	Floodproof, fill subfloor, sewer check valve	\$ 86,891
2029	Unavailable	6 TRUITT DR	\$ 959,700	449.4	450.4	1.0	Floodproof, sewer check valve	\$ 488,218

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2027	Unavailable	207 S CENTRAL AVE	\$	312,300	449.6	450.6	1.0	Floodproof, sewer check valve	\$	48,240
2968	Unavailable	126 S CENTRAL AVE	\$	124,900	449.6	450.6	1.1	Floodproof, fill subfloor, sewer check valve	\$	50,909
2979	Unavailable	103 THRESHER DR	\$	514,900	449.5	450.6	1.1	Floodproof, sewer check valve	\$	164,840
2032	Unavailable	102 DREYER AVE	\$	126,400	449.3	450.5	1.2	Floodproof, sewer check valve	\$	39,262
2039	Unavailable	112 DREYER AVE	\$	264,400	449.3	450.6	1.2	Floodproof, sewer check valve	\$	172,209
2008	Unavailable	215 S VIRGINIA AVE	\$	203,800	449.4	450.7	1.3	Floodproof, sewer check valve	\$	32,009
1969	Unavailable	15 DREYER AVE	\$	36,500	448.8	450.6	1.8	Floodproof, fill subfloor, sewer check valve	\$	97,952
3053	Unavailable	15 TRUITT DR	\$	496,500	448.4	450.5	2.1	Floodproof, sewer check valve	\$	182,073
2028	Unavailable	125 S CENTRAL AVE	\$	234,200	448.3	450.5	2.2	Floodproof, sewer check valve	\$	44,742
2971	Unavailable	122 S CENTRAL AVE	\$	166,900	448.1	450.4	2.4	Floodproof, sewer check valve	\$	44,742
1231	Unavailable	199 ALLEN RD	\$	272,700	442.7	445.2	2.4	Elevation	\$	61,358
2009	Unavailable	131 S CENTRAL AVE	\$	244,800	447.9	450.4	2.5	Floodproof, sewer check valve	\$	44,742
1903	Unavailable	16 E SPRING RIVER RANCH RD	\$	14,500	451.7	454.2	2.5	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	45,772
2974	Unavailable	215 THRESHER DR	\$	1,398,300	447.9	450.5	2.7	Acquisition	\$	1,443,300
1960	Unavailable	141 S CENTRAL AVE	\$	283,900	447.5	450.2	2.7	Floodproof, fill subfloor, sewer check valve	\$	50,909
3043	Unavailable	81 AUGUSTINE RD	\$	151,500	447.8	450.6	2.8	Floodproof, sewer check valve	\$	27,975
3042	Unavailable	77 AUGUSTINE RD	\$	155,900	447.6	450.7	3.1	Elevation	\$	51,781
2010	Unavailable	133 S CENTRAL AVE	\$	169,600	447.3	450.5	3.2	Floodproof, fill subfloor, sewer check valve	\$	54,017
1951	Unavailable	145 S CENTRAL AVE	\$	161,700	447.3	450.5	3.2	Floodproof, fill subfloor, sewer check valve	\$	59,683
3002	Unavailable	7 TRUITT DR	\$	271,900	447.2	450.4	3.2	Acquisition	\$	316,900
2040	Unavailable	16 DREYER AVE	\$	80,200	447.3	450.6	3.3	Elevation	\$	21,004
2975	Unavailable	210 S CENTRAL AVE	\$	116,900	447.3	450.5	3.3	Elevation	\$	56,260
1974	Unavailable	137 S CENTRAL AVE	\$	254,200	446.7	450.6	3.9	Floodproof, fill subfloor, sewer check valve	\$	54,017
2967	Unavailable	128 S CENTRAL AVE	\$	87,000	446.6	450.6	4.0	Elevation	\$	83,232
2977	Unavailable	130 S CENTRAL AVE	\$	81,800	446.5	450.6	4.0	Floodproof, sewer check valve	\$	47,850

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1993	Unavailable	212 S VIRGINIA AVE	\$	215,100	446.4	450.6	4.1	Elevation	\$	74,234
2050	Unavailable	25 TRUITT DR	\$	477,300	445.9	450.6	4.7	Elevation	\$	226,525
1939	Unavailable	2 SPRING RIVER RANCH RD	\$	12,600	450.4	455.1	4.8	Elevation	\$	28,196
2976	Unavailable	150 S CENTRAL AVE	\$	61,600	445.7	450.5	4.8	Elevation	\$	22,495
2973	Unavailable	200 S CENTRAL AVE	\$	373,700	445.6	450.6	5.0	Floodproof, sewer check valve	\$	119,625
1926	Unavailable	7 SPRING RIVER RANCH RD	\$	4,600	449.6	455.3	5.7	Elevation	\$	22,424
1905	Unavailable	14 E SPRING RIVER RANCH RD	\$	26,500	447.1	454.1	7.0	Acquisition	\$	121,404
1932	Unavailable	5 SPRING RIVER RANCH RD	\$	11,100	447.0	455.5	8.5	Elevation	\$	22,938
1910	Unavailable	6 SPRING RIVER RANCH RD	\$	7,200	446.8	456.0	9.2	Elevation	\$	24,442
2044	Unavailable	1500 S OUTER RD	\$	483,900	439.7	450.6	10.8	Acquisition	\$	528,900
1927	Unavailable	15 SPRING RIVER RANCH RD	\$	24,700	443.3	455.2	11.9	Elevation	\$	77,359
3074	Unavailable	25 WILLIAMS RD	\$	5,188,700	437.6	450.6	13.0	Elevation	\$	32,742
TOTAL COST OF MITIGATION IN EUREKA										\$ 6,140,943

CITY OF FENTON LIST OF NONSTRUCTURAL MITIGATION RECOMMENDATIONS

XID	Parcel ID	Address	Appraised Value	First Floor Elevation (ft.)	1% Flood Elevation (ft.)	1% AEP Flood Depth Relative to First Floor (ft.)	Mitigation Recommendation	Mitigation Cost
2527	Unavailable	1210 LARKIN WILLIAMS RD	\$ 660,900	429.3	427.6	-1.8	Fill subfloor, relocate utilities, sewer check valve	\$ 56,065
3108	Unavailable	2338 HITZERT CT	\$ 711,800	433.9	432.3	-1.6	Sewer check valve	\$ 1,600
2239	Unavailable	10 FENTON PLZ	\$ 2,260,200	426.2	425.6	-0.6	Sewer check valve	\$ 1,600
2338	Unavailable	206 WOLFNER DR	\$ 133,200	428.3	427.7	-0.6	Fill subfloor, relocate utilities, sewer check valve	\$ 34,143
2397	Unavailable	1242 LARKIN WILLIAMS RD	\$ 148,700	428.1	427.6	-0.5	Fill subfloor, relocate utilities, sewer check valve	\$ 25,300
2334	Unavailable	208 WOLFNER DR	\$ 114,700	428.3	427.8	-0.5	Fill subfloor, relocate utilities, sewer check valve	\$ 24,845
2395	Unavailable	1430 RIVERSIDE DR	\$ 172,500	428.2	427.7	-0.5	Fill subfloor, sewer check valve	\$ 6,827
1301	Unavailable	2510 CASSENS DR	\$ 859,100	431.8	431.7	-0.1	Floodproof, sewer check valve	\$ 474,623
1504	Unavailable	2450 CASSENS DR	\$ 985,500	431.6	431.6	-0.1	Floodproof, sewer check valve	\$ 379,244
1747	Unavailable	2380 CASSENS DR	\$ 1,017,500	431.4	431.7	0.2	Floodproof, sewer check valve	\$ 491,133
2341	Unavailable	204 WOLFNER DR	\$ 127,000	427.5	427.8	0.2	Floodproof, fill subfloor, sewer check valve	\$ 31,505
2920	Unavailable	600 GRAVOIS RD	\$ 268,400	425.3	425.7	0.4	Floodproof, sewer check valve	\$ 92,828
1277	Unavailable	1051 CASSENS INDUSTRIAL CT	\$ 2,434,800	431.4	431.8	0.4	Floodproof, sewer check valve	\$ 1,043,771
2260	Unavailable	524 GRAVOIS RD	\$ 85,300	425.2	425.6	0.4	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 45,634
1313	Unavailable	1099 CASSENS INDUSTRIAL CT	\$ 1,347,800	431.6	432.0	0.5	Floodproof, sewer check valve	\$ 882,863
2353	Unavailable	202 WOLFNER DR	\$ 126,300	427.1	427.7	0.6	Floodproof, fill subfloor, sewer check valve	\$ 31,505

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2396	Unavailable	1440 RIVERSIDE DR	\$	167,100	426.7	427.8	1.0	Floodproof, fill subfloor, sewer check valve	\$	86,855
2787	Unavailable	2171 HITZERT CT	\$	20,533,100	431.4	432.4	1.0	Floodproof, sewer check valve	\$	12,900,498
2256	Unavailable	520 GRAVOIS RD	\$	95,300	424.6	425.6	1.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	58,360
1306	Unavailable	2526 CASSENS DR	\$	868,000	430.9	432.0	1.0	Floodproof, sewer check valve	\$	208,145
2246	Unavailable	516 GRAVOIS RD	\$	89,400	424.6	425.6	1.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	61,957
2313	Unavailable	478 S OLD HIGHWAY 141 ST	\$	103,900	424.2	425.3	1.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	76,481
2345	Unavailable	1450 RIVERSIDE DR	\$	198,500	426.6	427.8	1.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	83,074
2259	Unavailable	536 GRAVOIS RD	\$	420,900	424.5	425.7	1.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	255,891
2899	Unavailable	53 GRAVOIS RD	\$	207,800	424.3	425.7	1.4	Floodproof, sewer check valve	\$	91,032
1429	Unavailable	2374 CASSENS DR	\$	790,500	430.1	431.6	1.5	Floodproof, sewer check valve	\$	366,838
1854	Unavailable	1090 CASSENS INDUSTRIAL CT	\$	955,700	429.8	431.9	2.1	Floodproof, sewer check valve	\$	283,469
2365	Unavailable	200 FABRICATOR DR	\$	1,142,200	426.1	428.2	2.1	Acquisition	\$	1,187,200
2919	Unavailable	550 WEST ST	\$	170,600	423.2	425.7	2.5	Floodproof, sewer check valve	\$	51,295
2295	Unavailable	558 GRAVOIS RD	\$	753,200	422.9	425.7	2.8	Floodproof, sewer check valve	\$	148,936
2228	Unavailable	520 CENTER ST	\$	150,000	422.8	425.5	2.8	Acquisition	\$	342,031
2270	Unavailable	516 WATER ST	\$	35,800	423.5	426.5	2.9	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	34,861
1314	Unavailable	2550 CASSENS DR	\$	344,500	428.5	431.7	3.2	Acquisition	\$	389,500
1325	Unavailable	1052 CASSENS INDUSTRIAL CT	\$	1,870,000	428.0	431.8	3.8	Acquisition	\$	1,915,000
2267	Unavailable	224 GRAVOIS RD	\$	95,900	421.8	425.6	3.8	Elevation	\$	58,113
2277	Unavailable	8 FERRY ST	\$	39,000	422.6	426.5	3.9	Acquisition	\$	84,000
2253	Unavailable	512 WATER ST	\$	67,400	422.5	426.4	4.0	Elevation	\$	80,469
2244	Unavailable	75 OPPTS LN	\$	2,330,700	421.4	425.4	4.0	Elevation	\$	145,588
2249	Unavailable	220 GRAVOIS RD	\$	156,600	420.8	425.7	4.9	Elevation	\$	72,862
2241	Unavailable	544 GRAVOIS RD	\$	41,200	420.2	425.7	5.4	Acquisition	\$	86,200

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3781	Unavailable	1215 LARKIN WILLIAMS RD	\$	407,400	422.1	427.5	5.5	Elevation	\$	236,278
2284	Unavailabl e	10 GRAVOIS RD	\$	121,000	420.1	425.7	5.5	Elevation	\$	99,803
2234	Unavailable	400 GRAVOIS RD	\$	249,800	420.0	425.7	5.6	Elevation	\$	233,121
2229	Unavailable	221 FERRY ST	\$	93,800	419.7	425.7	6.0	Acquisition	\$	138,800
2238	Unavailable	12 FERRY ST	\$	90,400	420.5	426.5	6.1	Elevation	\$	90,996
2227	Unavailable	36 GRAVOIS RD	\$	72,800	418.4	425.7	7.3	Elevation	\$	54,427
2914	Unavailable	671 LARKIN WILLIAMS RD	\$	94,900	418.5	426.8	8.3	Elevation	\$	42,613
2266	Unavailable	412 WATER ST	\$	108,900	418.2	426.7	8.5	Acquisition	\$	153,900
2906	Unavailable	49 GRAVOIS RD	\$	94,500	417.0	425.6	8.6	Elevation	\$	88,676
2720	Unavailabl e	64 GRAVOIS RD	\$	242,400	417.0	425.7	8.7	Elevation	\$	175,729
2258	Unavailable	18 GRAVOIS RD	\$	185,600	416.7	425.6	8.9	Elevation	\$	151,936
2915	Unavailable	679 LARKIN WILLIAMS RD	\$	56,400	417.3	426.3	8.9	Acquisition	\$	101,400
2292	Unavailable	42 GRAVOIS RD	\$	203,500	416.7	425.7	9.0	Acquisition	\$	248,500
2851	Unavailable	65 GRAVOIS RD	\$	102,600	416.3	425.6	9.3	Elevation	\$	43,384
2225	Unavailable	5 MOUND ST	\$	85,000	416.9	426.5	9.5	Acquisition	\$	228,308
2294	Unavailable	5 FERRY ST	\$	44,900	416.8	426.4	9.7	Elevation	\$	66,386
2305	Unavailable	811 LARKIN WILLIAMS RD	\$	63,900	416.9	427.6	10.7	Elevation	\$	80,221
2242	Unavailable	504 WATER ST	\$	43,400	415.6	426.5	10.9	Elevation	\$	63,357
2306	Unavailable	995 LARKIN WILLIAMS RD	\$	193,000	416.2	427.5	11.3	Elevation	\$	97,953
2274	Unavailabl e	62 GRAVOIS RD	\$	103,900	414.2	425.6	11.4	Acquisition	\$	148,900
3782	Unavailable	945 LARKIN WILLIAMS RD	\$	268,300	413.2	427.5	14.4	Elevation	\$	101,882
TOTAL COST OF MITIGATION IN FENTON									\$	25,338,711

CITY OF KIRKWOOD LIST OF NONSTRUCTURAL MITIGATION RECOMMENDATIONS

XID	Parcel ID	Address	Appraised Value	First Floor Elevation (ft.)	1% Flood Elevation (ft.)	1% AEP Flood Depth Relative to First Floor (ft.)	Mitigation Recommendation	Mitigation Cost
1319	Unavailable	2377 MARSHALL RD	\$ 739,800	416.2	432.2	16.0	Elevation	\$ 119,672

CITY OF PACIFIC LIST OF NONSTRUCTURAL MITIGATION RECOMMENDATIONS

XID	Parcel ID	Address	Appraised Value	First Floor Elevation (ft.)	1% Flood Elevation (ft.)	1% AEP Flood Depth Relative to First Floor (ft.)	Mitigation Recommendation	Mitigation Cost
904	Unavailable	218 W WATSON ST PACIFIC 63069	\$ 75,480	468.0	463.0	-5.0	Fill subfloor, relocate utilities, sewer check valve	\$ 34,416
850	Unavailable	213 E ORLEANS ST PACIFIC 63069	\$ 14,540	467.4	462.7	-4.6	Sewer check valve	\$ 1,600
939	Unavailable	406 S SECOND ST PACIFIC 63069	\$ 78,310	467.3	463.0	-4.3	Fill subfloor, relocate utilities, sewer check valve	\$ 22,292
920	Unavailable	318 S COLUMBUS ST PACIFIC 63069	\$ 59,300	466.3	462.8	-3.5	Fill subfloor, relocate utilities, sewer check valve	\$ 18,920
905	Unavailable	709 S SECOND ST PACIFIC 63069	\$ 51,380	466.5	463.0	-3.5	Fill subfloor, relocate utilities, sewer check valve	\$ 35,555
937	Unavailable	411 S SECOND ST PACIFIC 63069	\$ 61,710	465.9	462.9	-3.0	Fill subfloor, relocate utilities, sewer check valve	\$ 23,842
947	Unavailable	509 S SECOND ST PACIFIC 63069	\$ 88,790	465.6	462.8	-2.8	Fill subfloor, relocate utilities, sewer check valve	\$ 37,812
941	Unavailable	421 S FIRST ST PACIFIC 63069	\$ 58,690	465.2	462.6	-2.5	Acquisition	\$ 115,850
3619	Unavailable	1414 BEAUCAMP RD PACIFIC 63069	\$ 18,580	466.7	464.3	-2.4	Sewer check valve	\$ 1,600
954	Unavailable	110 E PACIFIC ST PACIFIC 63069	\$ 15,300	465.2	462.8	-2.4	Fill subfloor, relocate utilities, sewer check valve	\$ 44,124
3769	19112040031 73000-02	301-319 S SECOND ST PACIFIC 63069	\$ 12,628	465.1	462.9	-2.2	Relocation	\$ 7,200
3768	19112040031 73000-01	301-319 S SECOND ST PACIFIC 63069	\$ 12,628	465.0	462.8	-2.1	Relocation	\$ 7,200
895	Unavailable	314 S SECOND ST PACIFIC 63069	\$ 102,300	464.8	462.8	-2.0	Fill subfloor, relocate utilities, sewer check valve	\$ 35,555

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946	Unavailable	513 S SECOND ST PACIFIC 63069	\$	64,540	464.8	462.8	-2.0	Fill subfloor, relocate utilities, sewer check valve	\$	20,743
903	Unavailable	708 S THIRD ST PACIFIC 63069	\$	75,050	465.0	463.1	-1.8	Fill subfloor, relocate utilities, sewer check valve	\$	24,571
951	Unavailable	501 S FIRST ST PACIFIC 63069	\$	18,360	464.4	462.8	-1.6	Fill subfloor, relocate utilities, sewer check valve	\$	36,148
1117	Unavailable	122 W ORLEANS ST PACIFIC 63069	\$	107,860	464.3	462.8	-1.5	Sewer check valve	\$	1,600
891	Unavailable	211 S COLUMBUS ST PACIFIC 63069	\$	104,190	464.1	462.8	-1.4	Fill subfloor, relocate utilities, sewer check valve	\$	14,818
3770	19112040031 73000-03	301-319 S SECOND ST PACIFIC 63069	\$	12,628	464.2	462.8	-1.3	Relocation	\$	7,200
1096	Unavailable	S MERAMEC ST PACIFIC 63069	\$	173,370	464.1	462.9	-1.2	Sewer check valve	\$	1,600
1126	Unavailable	201/203 E ORLEANS ST PACIFIC 63069	\$	136,370	463.5	462.7	-0.9	Fill subfloor, relocate utilities, sewer check valve	\$	23,660
3776	19112040031 73000-09	301-319 S SECOND ST PACIFIC 63069	\$	12,628	463.7	462.9	-0.9	Relocation	\$	7,200
945	Unavailable	502 S THIRD ST PACIFIC 63069	\$	18,360	463.6	462.7	-0.8	Fill subfloor, relocate utilities, sewer check valve	\$	29,790
3620	Unavailable	W ORLEANS ST PACIFIC 63069	\$	4,250	463.3	462.6	-0.7	Acquisition	\$	49,250
1120	Unavailable	509 S FIRST ST PACIFIC 63069	\$	121,190	463.9	463.2	-0.7	Fill subfloor, relocate utilities, sewer check valve	\$	30,952
3773	19112040031 73000-05	301-319 S SECOND ST PACIFIC 63069	\$	12,628	463.5	462.8	-0.6	Relocation	\$	7,200
3777	19112040031 73000-10	301-319 S SECOND ST PACIFIC 63069	\$	12,628	463.4	462.9	-0.5	Relocation	\$	7,200
3774	19112040031 73000-07	301-319 S SECOND ST PACIFIC 63069	\$	12,628	463.2	462.7	-0.4	Relocation	\$	7,200
934	Unavailable	412 S THIRD ST PACIFIC 63069	\$	60,490	463.3	462.8	-0.4	Sewer check valve	\$	1,600
3772	19112040031 73000-06	301-319 S SECOND ST PACIFIC 63069	\$	12,628	463.2	462.8	-0.4	Relocation	\$	7,200
942	Unavailable	411 S FIRST ST PACIFIC 63069	\$	15,300	463.2	462.8	-0.4	Fill subfloor, relocate utilities, sewer check valve	\$	21,654
3780	19112040031 73000-13	301-319 S SECOND ST PACIFIC 63069	\$	12,628	463.2	462.8	-0.4	Relocation	\$	7,200

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928	Unavailable	106/108 W ORLEANS ST PACIFIC 63069	\$	114,930	463.1	462.8	-0.3	Fill subfloor, relocate utilities, sewer check valve	\$	30,041
3606	Unavailable	422 S THIRD ST PACIFIC 63069	\$	17,440	463.1	462.9	-0.2	Fill subfloor, sewer check valve	\$	5,070
3778	19112040031 73000-11	301-319 S SECOND ST PACIFIC 63069	\$	12,628	462.9	462.7	-0.2	Relocation	\$	7,200
3779	19112040031 73000-12	301-319 S SECOND ST PACIFIC 63069	\$	12,628	462.8	462.9	0.1	Relocation	\$	7,200
3775	19112040031 73000-08	301-319 S SECOND ST PACIFIC 63069	\$	12,628	462.8	462.8	0.1	Relocation	\$	7,200
1002	Unavailable	1810 OPECHEE BEACH RD PACIFIC 63069	\$	24,310	464.2	464.3	0.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	75,605
3771	19112040031 73000-04	301-319 S SECOND ST PACIFIC 63069	\$	12,628	462.7	462.8	0.2	Relocation	\$	7,200
1063	Unavailable	233 NORTHWOODS DR PACIFIC 63069	\$	260,420	466.7	467.0	0.3	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	22,349
1091	Unavailable	305/307 W WATSON ST PACIFIC 63069	\$	28,260	462.6	463.0	0.4	Floodproof, fill subfloor, sewer check valve	\$	23,589
1935	Unavailable	554 E OSAGE ST	\$	140,800	462.1	462.6	0.5	Floodproof, sewer check valve	\$	74,662
3600	Unavailable	E CENTRAL ST PACIFIC 63069	\$	4,400	462.2	462.7	0.5	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	12,712
1123	Unavailable	114/116 W ORLEANS ST PACIFIC 63069	\$	117,170	462.2	462.8	0.6	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	47,156
854	Unavailable	201/203 W MERAMEC ST PACIFIC 63069	\$	129,150	462.2	462.8	0.6	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	72,423
1934	Unavailable	564 E OSAGE ST	\$	115,100	461.8	462.5	0.7	Floodproof, sewer check valve	\$	83,407
898	Unavailable	315 W WATSON ST PACIFIC 63069	\$	116,580	462.4	463.1	0.7	Floodproof, fill subfloor, sewer check valve	\$	40,834
883	Unavailable	227/229 E CENTRAL ST PACIFIC 63069	\$	52,700	461.9	462.7	0.8	Floodproof, fill subfloor, sewer check valve	\$	21,430
1111	Unavailable	405 S FIRST ST PACIFIC 63069	\$	115,420	462.0	462.8	0.8	Floodproof, sewer check valve	\$	50,945
888	Unavailable	201 S COLUMBUS ST PACIFIC 63069	\$	67,550	462.0	462.8	0.8	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	38,948
944	Unavailable	520 S THIRD ST PACIFIC 63069	\$	19,280	462.1	462.9	0.8	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	59,974

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1101 DENTON RD PACIFIC										
3613	Unavailable		63069	\$	2,560,020	465.1	465.9	0.8	Floodproof, sewer check valve	\$ 32,802
902	Unavailable	702 S FOURTH ST PACIFIC	63069	\$	119,830	462.3	463.2	0.8	Floodproof, fill subfloor, sewer check valve	\$ 22,070
890	Unavailable	207 S COLUMBUS ST PACIFIC	63069	\$	48,960	461.9	462.8	1.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 72,562
889	Unavailable	203 S COLUMBUS ST PACIFIC	63069	\$	43,730	461.8	462.8	1.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 37,749
871	Unavailable	216/218 E CENTRAL ST PACIFIC	63069	\$	131,820	461.7	462.7	1.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 76,573
938	Unavailable	409 S SECOND ST PACIFIC	63069	\$	60,290	461.8	462.9	1.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 68,735
1119	Unavailable	505 S FIRST ST PACIFIC	63069	\$	92,910	462.1	463.1	1.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 85,288
1118	Unavailable	129 E PACIFIC ST PACIFIC	63069	\$	90,020	461.8	462.9	1.1	Floodproof, fill subfloor, sewer check valve	\$ 26,761
913	Unavailable	219/221 S FIRST ST PACIFIC	63069	\$	108,100	461.6	462.8	1.1	Floodproof, sewer check valve	\$ 85,552
896	Unavailable	121/123 W CONGRESS ST PACIFIC	63069	\$	121,280	461.6	462.8	1.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 55,086
892	Unavailable	215-221 S COLUMBUS ST PACIFIC	63069	\$	216,290	461.5	462.7	1.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 48,631
876	Unavailable	202 S COLUMBUS ST PACIFIC	63069	\$	102,780	461.6	462.8	1.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 66,383
882	Unavailable	223 E CENTRAL ST PACIFIC	63069	\$	156,640	461.4	462.7	1.3	Acquisition	\$ 201,640
886	Unavailable	203 E CENTRAL ST PACIFIC	63069	\$	20,880	461.4	462.8	1.3	Floodproof, fill subfloor, sewer check valve	\$ 25,588
961	Unavailable	526 S FIRST ST PACIFIC	63069	\$	97,670	461.5	462.8	1.4	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 135,085
851	Unavailable	210 E CENTRAL PACIFIC	63069	\$	108,460	461.4	462.8	1.4	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 60,112
935	Unavailable	417 S SECOND ST PACIFIC	63069	\$	57,950	461.2	462.7	1.5	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 28,989
878	Unavailable	124 S ELM ST PACIFIC	63069	\$	52,140	461.1	462.6	1.5	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 32,585

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940	Unavailable	402 S SECOND ST PACIFIC 63069	\$	86,300	461.3	462.9	1.6	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	86,256
923	Unavailable	104 E ORLEANS ST PACIFIC 63069	\$	15,300	461.2	462.8	1.6	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	41,438
885	Unavailable	213 E CENTRAL ST PACIFIC 63069	\$	25,090	461.2	462.8	1.6	Floodproof, sewer check valve	\$	25,480
900	Unavailable	225 W WATSON ST PACIFIC 63069	\$	17,450	461.4	463.0	1.6	Acquisition	\$	24,650
908	Unavailable	118 W WATSON ST PACIFIC 63069	\$	106,020	461.3	462.9	1.6	Floodproof, fill subfloor, sewer check valve	\$	39,981
875	Unavailable	206 S COLUMBUS ST PACIFIC 63069	\$	8,810	461.0	462.8	1.8	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	36,643
800	Unavailable	718 S FOURTH ST PACIFIC 63069	\$	20,660	461.5	463.3	1.8	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	31,571
1128	Unavailable	625 S FOURTH ST PACIFIC 63069	\$	365,130	461.3	463.1	1.8	Floodproof, sewer check valve	\$	92,548
911	Unavailable	218/220 S FIRST ST PACIFIC 63069	\$	476,440	461.0	462.8	1.8	Floodproof, fill subfloor, sewer check valve	\$	54,054
906	Unavailable	705 S FIRST ST PACIFIC 63069	\$	140,760	461.0	462.9	1.9	Floodproof, fill subfloor, sewer check valve	\$	42,939
864	Unavailable	210 S ELM ST PACIFIC 63069	\$	19,880	460.7	462.6	1.9	Acquisition	\$	73,743
874	Unavailable	210 S COLUMBUS ST PACIFIC 63069	\$	70,970	460.9	462.7	1.9	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	67,997
899	Unavailable	620 S FOURTH ST PACIFIC 63069	\$	55,160	461.2	463.1	1.9	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	72,423
1079	Unavailable	301 W WATSON ST PACIFIC 63069	\$	62,670	461.1	463.0	1.9	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	53,334
1913	Unavailable	611 E OSAGE ST	\$	148,700	460.3	462.3	2.0	Floodproof, sewer check valve	\$	78,253
893	Unavailable	223 S COLUMBUS ST PACIFIC 63069	\$	89,100	460.8	462.8	2.1	Floodproof, sewer check valve	\$	15,779
924	Unavailable	114 E ORLEANS ST PACIFIC 63069	\$	32,860	460.7	462.8	2.1	Floodproof, sewer check valve	\$	20,256
877	Unavailable	412 E FRISCO ST PACIFIC 63069	\$	50,960	460.6	462.7	2.1	Acquisition	\$	159,287
925	Unavailable	116 E ORLEANS ST PACIFIC 63069	\$	143,880	460.6	462.7	2.1	Floodproof, sewer check valve	\$	49,732

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948	Unavailable	115 W MERAMEC ST PACIFIC 63069	\$	52,060	460.3	462.6	2.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	73,069
855	Unavailable	306 S FIRST ST PACIFIC 63069	\$	43,390	460.7	462.9	2.2	Floodproof, sewer check valve	\$	13,563
3601	Unavailable	620 S FIRST ST PACIFIC 63069	\$	11,900	460.6	462.9	2.3	Floodproof, sewer check valve	\$	18,250
909	Unavailable	409 E CONGRESS ST PACIFIC 63069	\$	7,600	460.3	462.7	2.4	Acquisition	\$	52,600
936	Unavailable	423 S SECOND ST PACIFIC 63069	\$	11,250	460.5	462.9	2.4	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	45,865
768	Unavailable	650 S SIXTH ST PACIFIC 63069	\$	50,270	460.8	463.2	2.4	Floodproof, sewer check valve	\$	17,271
795	Unavailable	S SIXTH ST PACIFIC 63069	\$	25,630	460.7	463.2	2.4	Floodproof, sewer check valve	\$	23,987
872	Unavailable	220 E CENTRAL ST PACIFIC 63069	\$	15,300	460.2	462.7	2.5	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	49,323
848	Unavailable	203 W WATSON ST PACIFIC 63069	\$	116,570	460.4	462.9	2.5	Floodproof, sewer check valve	\$	35,461
912	Unavailable	117 E ORLEANS ST PACIFIC 63069	\$	27,420	460.3	462.8	2.5	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	55,824
962	Unavailable	611 S FIRST PACIFIC 63069	\$	24,480	460.4	462.9	2.5	Acquisition	\$	69,480
1138	Unavailable	313/315 E CENTRAL ST PACIFIC 63069	\$	109,500	460.0	462.6	2.6	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	52,320
1125	Unavailable	218/220 S COLUMBUS ST PACIFIC 63069	\$	136,370	460.2	462.8	2.6	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	49,461
3604	Unavailable	404 E CONGRESS ST PACIFIC 63069	\$	16,820	459.9	462.7	2.7	Acquisition	\$	61,820
915	Unavailable	312 E ORLEANS ST PACIFIC 63069	\$	19,620	460.0	462.7	2.8	Acquisition	\$	112,701
926	Unavailable	126 E ORLEANS ST PACIFIC 63069	\$	209,920	460.0	462.8	2.8	Floodproof, sewer check valve	\$	47,074
950	Unavailable	109 W MERAMEC ST PACIFIC 63069	\$	47,350	460.1	462.9	2.8	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	60,476
1135	Unavailable	119/121 S ELM ST PACIFIC 63069	\$	94,120	459.8	462.7	2.8	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	60,380
927	Unavailable	326 S FIRST ST PACIFIC 63069	\$	116,710	459.9	462.7	2.8	Acquisition	\$	161,710
897	Unavailable	207 W WATSON ST PACIFIC 63069	\$	116,570	460.1	462.9	2.9	Floodproof, sewer check valve	\$	37,900
957	Unavailable	110 E CONGRESS ST PACIFIC 63069	\$	40,630	459.9	462.8	2.9	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	37,728

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873	Unavailable	225 E ORLEANS ST PACIFIC 63069	\$	75,430	459.8	462.7	2.9	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	48,433
949	Unavailable	111/113 W MERAMEC ST PACIFIC 63069	\$	103,760	459.9	462.9	3.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	88,193
1933	Unavailable	600 E OSAGE ST	\$	80,000	459.4	462.4	3.0	Elevation	\$	90,715
1013	Unavailable	1435 BEUACAMP RD PACIFIC 63069	\$	172,160	461.2	464.3	3.0	Elevation	\$	68,992
1137	Unavailable	305-311 E CENTRAL ST PACIFIC 63069	\$	272,090	459.6	462.6	3.0	Elevation	\$	66,870
869	Unavailable	316 E CENTRAL ST PACIFIC 63069	\$	181,860	459.6	462.7	3.0	Acquisition	\$	348,094
919	Unavailable	301/303 S OLIVE ST PACIFIC 63069	\$	129,670	459.8	462.8	3.1	Elevation	\$	52,010
863	Unavailable	206 S ELM ST PACIFIC 63069	\$	78,190	459.5	462.6	3.1	Elevation	\$	51,612
916	Unavailable	214 E ORLEANS ST PACIFIC 63069	\$	93,410	459.7	462.8	3.1	Elevation	\$	31,843
901	Unavailable	218 W MERAMEC ST PACIFIC 63069	\$	61,470	459.8	462.9	3.1	Elevation	\$	56,441
958	Unavailable	404 S FIRST ST PACIFIC 63069	\$	35,130	459.8	462.9	3.1	Acquisition	\$	80,130
1012	Unavailable	802 S SECOND ST PACIFIC 63069	\$	103,200	459.9	463.0	3.1	Elevation	\$	80,801
955	Unavailable	115 E PACIFIC ST PACIFIC 63069	\$	64,600	459.6	462.8	3.1	Acquisition	\$	109,600
952	Unavailable	506 S FIRST ST PACIFIC 63069	\$	13,490	459.7	462.9	3.1	Elevation	\$	33,969
922	Unavailable	306-312 S COLUMBUS ST PACIFIC 63069	\$	333,710	459.6	462.8	3.1	Elevation	\$	125,381
914	Unavailable	302 S ELM ST PACIFIC 63069	\$	21,660	459.6	462.7	3.2	Acquisition	\$	122,945
907	Unavailable	703 S FIRST ST PACIFIC 63069	\$	135,230	459.7	462.9	3.2	Elevation	\$	93,405
879	Unavailable	401 E CENTRAL ST PACIFIC 63069	\$	26,300	459.5	462.7	3.2	Acquisition	\$	137,931
917	Unavailable	222 E ORLEANS ST PACIFIC 63069	\$	95,110	459.5	462.8	3.3	Elevation	\$	73,902
852	Unavailable	218/220 S OLIVE ST PACIFIC 63069	\$	113,510	459.6	462.9	3.3	Elevation	\$	92,742
960	Unavailable	412 S FIRST ST ROBERTSVILLE 63072	\$	86,960	459.5	462.8	3.3	Acquisition	\$	131,960

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880	Unavailable	419 E CENTRAL ST PACIFIC 63069	\$	106,000	459.3	462.6	3.3	Acquisition	\$	151,000
1129	Unavailable	400 DENTON RD PACIFIC 63069	\$	52,220	459.8	463.2	3.3	Elevation	\$	102,693
866	Unavailable	202 S OLIVE ST PACIFIC 63069	\$	107,240	459.1	462.5	3.4	Elevation	\$	56,441
868	Unavailable	312 E CENTRAL ST PACIFIC 63069	\$	40,140	459.3	462.7	3.4	Acquisition	\$	135,614
918	Unavailable	224 E ORLEANS ST PACIFIC 63069	\$	122,680	459.3	462.8	3.5	Elevation	\$	62,093
1136	Unavailable	317/319 E CENTRAL ST PACIFIC 63069	\$	96,380	459.1	462.7	3.6	Elevation	\$	73,570
1014	Unavailable	804 S FIRST ST PACIFIC 63069	\$	43,210	459.3	462.9	3.6	Elevation	\$	57,317
867	Unavailable	308 E CENTRAL ST PACIFIC 63069	\$	22,830	459.1	462.8	3.7	Elevation	\$	40,334
921	Unavailable	314 S COLUMBUS ST PACIFIC 63069	\$	70,830	459.1	462.8	3.7	Elevation	\$	52,010
956	Unavailable	420 S FIRST ST PACIFIC 63069	\$	105,510	459.1	462.9	3.8	Acquisition	\$	150,510
853	Unavailable	114 E CONGRESS ST PACIFIC 63069	\$	18,900	459.0	462.8	3.8	Acquisition	\$	115,628
870	Unavailable	321 E ORLEANS ST PACIFIC 63069	\$	157,190	458.6	462.7	4.1	Acquisition	\$	293,342
3609	Unavailable	790 LK DUNCAN DR PACIFIC 63069	\$	61,320	458.9	463.0	4.1	Acquisition	\$	115,617
963	Unavailable	616 S SECOND ST PACIFIC 63069	\$	71,520	458.7	462.9	4.2	Acquisition	\$	116,520
3621	Unavailable	800 DENTON RD PACIFIC 63069	\$	11,470	458.8	463.3	4.5	Acquisition	\$	56,470
865	Unavailable	214 S ELM ST PACIFIC 63069	\$	136,120	458.1	462.7	4.5	Elevation	\$	55,068
953	Unavailable	502 S FIRST ST PACIFIC 63069	\$	42,800	458.2	462.9	4.7	Elevation	\$	64,786
959	Unavailable	114 E PACIFIC ST PACIFIC 63069	\$	49,050	458.0	462.8	4.8	Elevation	\$	53,988
3607	Unavailable	510 S FIRST PACIFIC 63069	\$	12,580	458.0	462.8	4.9	Acquisition	\$	57,580
3605	Unavailable	E CONGRESS ST PACIFIC 63069	\$	6,660	457.7	462.7	5.0	Elevation	\$	10,303
839	Unavailable	LK DUNCAN DR PACIFIC 63069	\$	425,110	455.7	462.8	7.1	Elevation	\$	52,899

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1053	Unavailable	DENTON RD PACIFIC 63069	\$	20,960	456.8	467.4	10.6	Acquisition	\$	120,240
3610	Unavailable	HIGHWAY N PACIFIC 63069	\$	88,070	453.7	470.2	16.5	Acquisition	\$	133,070
TOTAL COST OF MITIGATION IN PACIFIC									\$	8,858,570

CITY OF SUNSET HILLS LIST OF NONSTRUCTURAL MITIGATION RECOMMENDATIONS

XID	Parcel ID	Address	Appraised Value	First Floor Elevation (ft.)	1% Flood Elevation (ft.)	1% AEP Flood Depth Relative to First Floor (ft.)	Mitigation Recommendation	Mitigation Cost
2748	Unavailable	12931 WEBER HILL RD	\$ 168,400	434.3	427.4	-6.9	Fill subfloor, relocate utilities, sewer check valve	\$ 24,959
2409	Unavailable	13310 W WATSON RD	\$ 124,400	427.9	427.5	-0.4	Sewer check valve	\$ 1,600
2764	Unavailable	11070 GRAVOIS INDUSTRIAL CT	\$ 478,100	425.7	425.6	-0.1	Floodproof, sewer check valve	\$ 216,237
2771	Unavailable	11088 GRAVOIS INDUSTRIAL CT	\$ 781,200	425.5	425.5	0.0	Floodproof, sewer check valve	\$ 188,486
2782	Unavailable	12949 GRAVOIS RD	\$ 1,062,100	426.0	426.1	0.1	Floodproof, sewer check valve	\$ 555,660
2845	Unavailable	12955 GRAVOIS RD	\$ 632,900	426.1	426.2	0.1	Floodproof, sewer check valve	\$ 311,243
2776	Unavailable	13066 GRAVOIS RD	\$ 1,577,400	425.2	425.4	0.2	Floodproof, sewer check valve	\$ 200,823
2766	Unavailable	10944 GRAVOIS INDUSTRIAL CT	\$ 636,100	424.7	425.1	0.4	Floodproof, sewer check valve	\$ 352,566
2243	Unavailable	11041 GRAVOIS INDUSTRIAL CT	\$ 959,500	425.0	425.4	0.4	Floodproof, sewer check valve	\$ 198,304
2783	Unavailable	12935 GRAVOIS RD	\$ 896,000	425.6	426.2	0.6	Floodproof, sewer check valve	\$ 546,495
2254	Unavailable	11043 GRAVOIS INDUSTRIAL CT	\$ 592,100	424.7	425.4	0.7	Floodproof, sewer check valve	\$ 310,637
2265	Unavailable	10989 GRAVOIS INDUSTRIAL CT	\$ 867,400	424.2	425.1	0.9	Floodproof, sewer check valve	\$ 424,905
2278	Unavailable	11017 GRAVOIS INDUSTRIAL CT	\$ 1,417,200	424.5	425.4	0.9	Floodproof, sewer check valve	\$ 224,609
2773	Unavailable	11084 GRAVOIS INDUSTRIAL CT	\$ 344,500	425.4	426.3	0.9	Floodproof, sewer check valve	\$ 173,608
2452	Unavailable	13320 W WATSON RD	\$ 163,500	426.7	427.7	1.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 63,939

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2784	Unavailable	10228 RAHNING RD	\$	1,103,700	424.9	426.1	1.2	Floodproof, sewer check valve	\$	364,226
2772	Unavailable	10911 GRAVOIS INDUSTRIAL CT	\$	803,600	423.6	425.1	1.6	Floodproof, sewer check valve	\$	670,464
2226	Unavailable	11059 GRAVOIS INDUSTRIAL CT	\$	252,700	423.8	425.5	1.7	Floodproof, sewer check valve	\$	103,812
2765	Unavailable	10922 GRAVOIS INDUSTRIAL CT	\$	531,100	423.2	425.1	1.9	Floodproof, sewer check valve	\$	288,716
2777	Unavailable	12920 GRAVOIS RD	\$	504,200	423.1	425.1	2.0	Acquisition	\$	549,200
2271	Unavailable	11085 GRAVOIS INDUSTRIAL CT	\$	847,900	423.6	425.6	2.0	Acquisition	\$	892,900
2768	Unavailable	11010 GRAVOIS INDUSTRIAL CT	\$	1,167,200	423.3	425.4	2.0	Acquisition	\$	1,212,200
2774	Unavailable	12950 GRAVOIS RD	\$	2,643,900	423.6	425.6	2.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	87,824
2770	Unavailable	11026 GRAVOIS INDUSTRIAL CT	\$	513,100	422.8	425.4	2.6	Acquisition	\$	558,100
2763	Unavailable	11048 GRAVOIS INDUSTRIAL CT	\$	601,200	422.8	425.5	2.7	Floodproof, sewer check valve	\$	277,009
2377	Unavailable	13328 W WATSON RD	\$	65,700	424.6	427.4	2.9	Floodproof, fill subfloor, sewer check valve	\$	68,696
2780	Unavailable	13084 GRAVOIS RD	\$	744,500	422.6	425.7	3.1	Elevation	\$	513,629
2742	Unavailable	12918 WEBER HILL RD	\$	62,500	423.8	427.5	3.7	Elevation	\$	50,170
2778	Unavailable	12954 GRAVOIS RD	\$	250,000	422.0	425.7	3.7	Elevation	\$	62,668
2465	Unavailable	13336 W WATSON RD	\$	65,700	422.2	427.4	5.2	Elevation	\$	79,590
2444	Unavailable	13344 W WATSON RD	\$	251,400	421.8	427.4	5.7	Elevation	\$	151,152
2279	Unavailable	12981 GRAVOIS RD	\$	185,900	419.6	426.2	6.6	Acquisition	\$	230,900
2775	Unavailable	13012 GRAVOIS RD	\$	231,200	418.9	425.6	6.7	Acquisition	\$	276,200
2761	Unavailable	13080 GRAVOIS RD	\$	1,177,000	418.1	425.1	7.0	Elevation	\$	352,199
2762	Unavailable	13098 GRAVOIS RD	\$	1,255,000	418.0	425.1	7.2	Elevation	\$	234,471
2769	Unavailable	13094 GRAVOIS RD	\$	399,100	415.9	425.1	9.2	Elevation	\$	127,044
2304	Unavailable	13489 W WATSON RD	\$	5,100	412.8	427.5	14.7	Acquisition	\$	58,840
2303	Unavailable	13550 W WATSON RD	\$	251,600	412.2	427.3	15.1	Elevation	\$	95,716

1808	Unavailable	11991 STONEYWOOD DR	\$	635,300	409.3	429.1	19.8	Elevation	\$	88,240
TOTAL COST OF MITIGATION IN SUNSET HILLS									\$	11,188,036

UNINCORPORATED JEFFERSON COUNTY LIST OF NONSTRUCTURAL MITIGATION RECOMMENDATIONS

XID	Parcel ID	Address	Appraised Value	First Floor Elevation (ft.)	1% Flood Elevation (ft.)	1% AEP Flood Depth Relative to First Floor (ft.)	Mitigation Recommendation	Mitigation Cost
3541	3501600000019	7086 TWIN RIVER RD 63025	\$ 65,400	457.4	453.1	-4.3	Fill subfloor, relocate utilities, sewer check valve	\$ 43,987
3671	02101103001036-07	1 COLONY LN 63026	\$ 7,200	427.1	424.5	-2.6	Relocation	\$ 7,200
3723	02101103001038-05	117 COVERED BRIDGE CT 63026	\$ 7,200	427.0	424.6	-2.4	Relocation	\$ 7,200
3712	02101103001036-48	1 COLONY LN 63026	\$ 7,200	426.7	424.6	-2.1	Relocation	\$ 7,200
3665	02101103001036-01	1 COLONY LN 63026	\$ 7,200	426.0	424.5	-1.5	Relocation	\$ 7,200
3447	2602402007006	1248 PLEASANT DR 63010	\$ 52,200	425.1	423.7	-1.4	Fill subfloor, relocate utilities, sewer check valve	\$ 34,439
3676	02101103001036-12	1 COLONY LN 63026	\$ 7,200	425.9	424.5	-1.4	Relocation	\$ 7,200
3291	2201001003005	1637 OLD HIGHWAY 141 63026	\$ 160,500	425.8	424.5	-1.3	Sewer check valve	\$ 1,600
3669	02101103001036-05	1 COLONY LN 63026	\$ 7,200	425.7	424.4	-1.3	Relocation	\$ 7,200
3670	02101103001029-06	1871 SMIZER MILL CT	\$ 7,200	425.8	424.5	-1.3	Relocation	\$ 7,200

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3584	4602300000008	2863 STATE RD FF 63025	\$	24,000	458.6	457.4	-1.2	Fill subfloor, sewer check valve	\$	3,683
3409	2602402001002	978 MISSOURI STATE RD 63010	\$	60,000	425.1	423.9	-1.2	Fill subfloor, relocate utilities, sewer check valve	\$	34,416
3421	2602402003010	3301 LARK DR 63010	\$	104,700	425.0	423.8	-1.1	Fill subfloor, relocate utilities, sewer check valve	\$	44,922
3260	0210110200100617-01	1726 OLD HIGHWAY 141 63026	\$	78,000	425.4	424.4	-1.0	Relocation	\$	7,200
3587	46023000000013	1 CONTENTMENT LN 63025	\$	114,300	458.2	457.3	-1.0	Fill subfloor, relocate utilities, sewer check valve	\$	18,828
3463	260240300201601	1315 MISSOURI STATE RD 63010	\$	34,800	424.6	423.8	-0.8	Fill subfloor, sewer check valve	\$	6,000
3303	2201004001009	1778 OLD HIGHWAY 141 63026	\$	46,200	425.0	424.5	-0.5	Fill subfloor, sewer check valve	\$	8,173
3300	2201004001006	1768 OLD HIGHWAY 141 63026	\$	107,400	425.0	424.5	-0.5	Sewer check valve	\$	1,600
3677	02101103001029-13	1871 SMIZER MILL CT	\$	7,200	424.9	424.4	-0.5	Relocation	\$	7,200
3472	320040000000101	138 BOLAND FARM RD 63025	\$	79,500	451.2	450.7	-0.5	Sewer check valve	\$	1,600
3302	2201004001008	1772 OLD HIGHWAY 141 63026	\$	64,800	424.9	424.5	-0.4	Fill subfloor, relocate utilities, sewer check valve	\$	29,380
3486	34017000000032	7316 TWIN RIVER RD 63025	\$	31,500	453.1	452.7	-0.3	Fill subfloor, relocate utilities, sewer check valve	\$	27,853
3425	2602402003013	1221 PLEASANT DR 63010	\$	97,800	424.0	423.7	-0.3	Fill subfloor, relocate utilities, sewer check valve	\$	38,518
3720	02101103001038-02	117 COVERED BRIDGE CT 63026	\$	7,200	424.8	424.5	-0.3	Relocation	\$	7,200
3305	2201004001001	101 LAVERNEL DR 63026	\$	36,900	424.7	424.5	-0.2	Sewer check valve	\$	1,600
3304	2201004001000	1782 OLD HIGHWAY 141 63026	\$	33,600	424.7	424.5	-0.2	Fill subfloor, sewer check valve	\$	5,920
3324	25015010010035	121 SPRING VALLEY DR 63026	\$	41,400	424.7	424.5	-0.2	Fill subfloor, relocate utilities, sewer check valve	\$	25,300
3726	02101103001038-09	117 COVERED BRIDGE CT 63026	\$	7,200	424.7	424.5	-0.2	Relocation	\$	7,200

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3383	260140200101 402		\$	38,100	424.4	424.2	-0.2	Sewer check valve	\$	1,600
3426	260240200301 4	1215 PLEASANT DR 63010	\$	46,200	423.8	423.6	-0.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	60,481
3443	260240200700 2	3323 DUTCH BOTTOM RD 63010	\$	50,400	424.0	423.9	-0.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	53,611
3698	021011030010 36-34	1 COLONY LN 63026	\$	7,200	424.5	424.5	0.0	Relocation	\$	7,200
3323	250150100103 3	150 SPRING VALLEY DR	\$	47,100	424.4	424.4	0.0	Floodproof, sewer check valve	\$	41,431
3269	210110300101 2	1880 OLD HIGHWAY 141 63026	\$	214,200	424.4	424.4	0.0	Floodproof, sewer check valve	\$	23,987
3414	260240200300 3	1220 LAKEMONT DR 63010	\$	46,800	423.7	423.9	0.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	70,948
3266	210110300100 7	100 LAVERNEL LN 63026	\$	36,300	424.3	424.5	0.2	Floodproof, sewer check valve	\$	22,982
3539	340190000001 503	3219 WINNIFRED DR 63025	\$	30,300	453.2	453.4	0.2	Floodproof, fill subfloor, sewer check valve	\$	29,026
3284	220100100201 4	1656 OLD HIGHWAY 141 63026	\$	22,500	424.3	424.5	0.2	Floodproof, fill subfloor, sewer check valve	\$	15,247
3423	260240200301 1	1249 PLEASANT DR 63010	\$	62,700	423.6	423.9	0.3	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	33,968
3424	260240200301 2	1240 PLEASANT DR 63010	\$	51,600	423.3	423.9	0.6	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	100,457
3679	021011030010 29-14	1871 SMIZER MILL CT	\$	7,200	423.9	424.5	0.6	Relocation	\$	7,200
3268	210110300101 1	1844 OLD HIGHWAY 141 63026	\$	53,700	423.9	424.5	0.7	Floodproof, sewer check valve	\$	38,562
3450	260240200700 9	3341 DUTCH BOTTOM RD 63010	\$	54,300	423.0	423.8	0.8	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	67,275
3321	250150100103 1	118 SPRING VALLEY DR 63026	\$	66,000	423.6	424.5	0.8	Floodproof, sewer check valve	\$	74,965
3282	220100100201 2	1646 OLD HIGHWAY 141 63026	\$	23,700	423.8	424.7	0.9	Floodproof, fill subfloor, sewer check valve	\$	76,416
3322	250150100103 2	126 SPRING VALLEY DR 63026	\$	49,200	423.6	424.5	0.9	Floodproof, sewer check valve	\$	39,752

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3466	260240300503 5	3470 DUTCH BOTTOM RD 63010	\$	59,700	423.0	423.9	0.9	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	54,658
3445	260240200700 4	1210 PLEASANT DR 63010	\$	50,700	423.1	424.1	1.0	Floodproof, sewer check valve	\$	27,427
3484	340170000002 9	7362 TWIN RIVER RD 63025	\$	27,300	451.8	452.8	1.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	42,176
3511	340180000100 702		\$	9,900	452.4	453.4	1.0	Floodproof, sewer check valve	\$	141,520
3585	460230000000 9	2865 STATE RD FF 63025	\$	27,600	456.1	457.2	1.1	Floodproof, sewer check valve	\$	15,592
3326	250150100103 7	109 SPRING VALLEY DR 63026	\$	39,600	423.6	424.7	1.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	48,862
3413	260240200300 2	1214 LAKEMONT DR 63010	\$	47,400	422.7	423.9	1.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	57,867
3328	250150100103 9	124 MISTY LN 63026	\$	39,000	423.3	424.5	1.1	Floodproof, sewer check valve	\$	38,352
3283	220100100201 3	1652 OLD HIGHWAY 141 63026	\$	36,300	422.9	424.0	1.2	Floodproof, fill subfloor, sewer check valve	\$	32,305
3483	340170000002 701	7368 TWIN RIVER RD 63025	\$	14,400	451.4	452.6	1.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	49,553
3444	260240200700 3	3311 DUTCH BOTTOM RD 63010	\$	41,400	422.4	423.8	1.3	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	47,986
3320	250150100103 0	108 SPRING VALLEY DR 63026	\$	10,200	422.9	424.3	1.4	Floodproof, sewer check valve	\$	20,629
3624	021011020010 0617-04	1726 OLD HIGHWAY 141 63026	\$	7,200	423.1	424.5	1.5	Relocation	\$	7,200
3289	220100100202 1	1722 OLD HIGHWAY 141 63026	\$	36,900	423.0	424.5	1.5	Floodproof, fill subfloor, sewer check valve	\$	23,349
3285	220100100201 5	1662 OLD HIGHWAY 141 63026	\$	41,400	422.8	424.4	1.6	Floodproof, fill subfloor, sewer check valve	\$	35,237
3475	340170000000 1	7133 TWIN RIVER RD 63025	\$	17,100	451.5	453.1	1.6	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	30,418
3280	220100100201 0	1634 OLD HIGHWAY 141 63026	\$	111,000	422.8	424.5	1.7	Floodproof, sewer check valve	\$	71,747
3481	340170000002 6	7382 TWIN RIVER RD 63025	\$	19,500	450.9	452.7	1.8	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	49,922

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3542	350160000002 0	7064 TWIN RIVER RD 63025	\$	4,800	451.2	453.0	1.8	Acquisition	\$	49,800
3286	220100100201 6	1668 OLD HIGHWAY 141 63026	\$	20,400	422.8	424.6	1.8	Floodproof, fill subfloor, sewer check valve	\$	55,706
3430	260240200400 5	1335 MEADOW DR 63010	\$	35,700	421.7	423.5	1.8	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	39,963
3678	021011030010 29-15	1871 SMIZER MILL CT	\$	7,200	422.6	424.5	1.9	Relocation	\$	7,200
3724	021011030010 38-06	117 COVERED BRIDGE CT 63026	\$	7,200	422.4	424.4	1.9	Relocation	\$	7,200
3330	250150100104 2	481 ROMAINE CREEK RD 63026	\$	30,600	422.5	424.5	2.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	37,012
3628	021011020010 0617-08	1726 OLD HIGHWAY 141 63026	\$	7,200	422.4	424.4	2.0	Relocation	\$	7,200
3625	021011020010 0617-02	1726 OLD HIGHWAY 141 63026	\$	7,200	422.4	424.4	2.1	Relocation	\$	7,200
3488	340170000003 7	7268 TWIN RIVER RD 63025	\$	31,200	450.9	453.0	2.1	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	42,360
3399	260140400101 9	E 605 OUTER 21 RD 63010	\$	727,500	421.7	423.8	2.1	Acquisition	\$	772,500
3275	210110300103 9	300 FLOOD DR 63026	\$	117,300	422.3	424.4	2.2	Elevation	\$	17,172
3325	250150100103 6	115 SPRING VALLEY DR 63026	\$	40,200	422.1	424.4	2.3	Floodproof, sewer check valve	\$	30,703
3327	250150100103 8	112 MISTY LN 63026	\$	33,000	422.1	424.4	2.3	Floodproof, sewer check valve	\$	25,107
3629	021011020010 0617-11	1726 OLD HIGHWAY 141 63026	\$	7,200	422.2	424.5	2.4	Relocation	\$	7,200
3495	340170000006 7	2796 RIVER BEND ACRES RD 63025	\$	900	450.6	453.0	2.4	Floodproof, fill subfloor, sewer check valve	\$	19,618
3721	021011030010 38-03	117 COVERED BRIDGE CT 63026	\$	7,200	422.0	424.5	2.5	Relocation	\$	7,200
3540	350160000001 8	7092 TWIN RIVER RD 63025	\$	22,500	450.8	453.3	2.6	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	51,121
3635	021011020010 0617-10	1726 OLD HIGHWAY 141 63026	\$	7,200	421.8	424.4	2.6	Relocation	\$	7,200

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3288	2201001002020	1710 OLD HIGHWAY 141 63026	\$	25,500	421.8	424.4	2.6	Floodproof, fill subfloor, sewer check valve	\$	29,213
3499	3401700000079	2886 RIVER BEND ACRES RD 63025	\$	7,800	450.4	453.1	2.7	Acquisition	\$	59,070
3455	2602403001003	1196 MISSOURI STATE RD 63010	\$	7,200	421.2	423.9	2.7	Relocation	\$	7,200
3627	0210110200100617-07	1726 OLD HIGHWAY 141 63026	\$	7,200	421.8	424.5	2.7	Relocation	\$	7,200
3687	02101103001029-23	1871 SMIZER MILL CT	\$	7,200	421.7	424.5	2.7	Relocation	\$	7,200
3281	2201001002011	1642 OLD HIGHWAY 141 63026	\$	31,800	421.2	424.0	2.8	Acquisition	\$	84,883
3626	0210110200100617-03	1726 OLD HIGHWAY 141 63026	\$	7,200	421.7	424.5	2.8	Relocation	\$	7,200
3477	3401700000009	7437 TWIN RIVER RD 63025	\$	29,700	449.7	452.5	2.8	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$	46,233
3261	2101102001014	147 EL JON LN 63026	\$	26,700	421.7	424.5	2.8	Floodproof, fill subfloor, sewer check valve	\$	26,533
3427	2602402003015	1209 PLEASANT DR 63010	\$	46,500	421.0	423.9	2.9	Floodproof, sewer check valve	\$	35,900
3287	2201001002019	1688 OLD HIGHWAY 141 63026	\$	45,900	421.6	424.5	2.9	Floodproof, sewer check valve	\$	40,800
3384	2601402001016	801 SCHNEIDER DR 63026	\$	7,200	421.7	424.6	2.9	Relocation	\$	7,200
3497	3401700000070	2808 RIVER BEND ACRES RD 63025	\$	16,200	450.2	453.2	2.9	Acquisition	\$	66,200
3482	34017000000027	7374 TWIN RIVER RD 63025	\$	22,800	449.4	452.5	3.1	Elevation	\$	52,540
3639	0210110200100617-06	1726 OLD HIGHWAY 141 63026	\$	7,200	421.4	424.5	3.1	Relocation	\$	7,200
3638	0210110200100617-05	1726 OLD HIGHWAY 141 63026	\$	7,200	421.2	424.4	3.2	Relocation	\$	7,200
3245	2100204001092		\$	1,140,900	421.8	425.0	3.2	Elevation	\$	38,890
3631	0210110200100617-15	1726 OLD HIGHWAY 141 63026	\$	7,200	421.2	424.4	3.2	Relocation	\$	7,200

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3490	340170000004 3	7178 TWIN RIVER RD 63025	\$	7,200	449.8	453.0	3.2	Relocation	\$	7,200
3637	021011020010 0617-12	1726 OLD HIGHWAY 141 63026	\$	7,200	421.2	424.5	3.3	Relocation	\$	7,200
3429	260240200400 3	1329 MEADOW DR 63010	\$	53,100	420.6	423.9	3.3	Elevation	\$	62,093
3515	340180000201 4	7589 TWIN RIVER RD 63025	\$	7,200	449.9	453.2	3.3	Relocation	\$	7,200
3501	340170000008 4	2904 RIVER BEND ACRES RD 63025	\$	7,200	449.5	452.8	3.3	Relocation	\$	7,200
3642	021011020010 16-02	120 BABS LN 63026	\$	7,200	421.0	424.4	3.4	Relocation	\$	7,200
3521	340180000203 802	7687 TWIN RIVER RD 63025	\$	37,800	449.8	453.3	3.4	Acquisition	\$	88,317
3456	260240300200 1	101 CREEKWOOD DR 63010	\$	43,800	420.3	423.8	3.4	Elevation	\$	77,617
3496	340170000006 9	2796 RIVER BEND ACRES RD 63025	\$	14,400	449.7	453.1	3.4	Elevation	\$	28,130
3277	210110300200 9	S 2141 HIGHWAY 141 63026	\$	301,800	420.8	424.3	3.5	Elevation	\$	221,887
3500	340170000008 102	2892 RIVER BEND ACRES RD 63025	\$	2,700	449.5	453.0	3.5	Elevation	\$	21,098
3578	460130000106 4	2792 STATE RD W	\$	28,200	450.1	453.6	3.5	Elevation	\$	84,051
3487	340170000003 3	7310 TWIN RIVER RD 63025	\$	23,400	449.3	452.8	3.6	Elevation	\$	74,300
3506	340170000009 5	2970 RIVER BEND ACRES RD 63025	\$	7,200	449.6	453.2	3.6	Relocation	\$	7,200
3537	340190000000 4	3043 STATE RD W 63025	\$	21,000	449.8	453.4	3.6	Elevation	\$	39,803
3434	260240200401 3	1060 LAKE DR 63010	\$	45,000	420.3	423.9	3.6	Elevation	\$	94,931
3498	340170000007 3	2866 RIVER BEND ACRES RD 63025	\$	16,200	449.4	453.1	3.7	Elevation	\$	28,130
3633	021011020010 0617-13	1726 OLD HIGHWAY 141 63026	\$	7,200	420.9	424.6	3.7	Relocation	\$	7,200

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3479	340170000002 1	7430 TWIN RIVER RD 63025	\$	25,500	449.2	452.9	3.7	Elevation	\$	57,317
3643	021011020010 16-03	120 BABS LN 63026	\$	7,200	420.7	424.5	3.8	Relocation	\$	7,200
3640	021011020010 0617-18	1726 OLD HIGHWAY 141 63026	\$	7,200	420.7	424.5	3.8	Relocation	\$	7,200
3632	021011020010 0617-17	1726 OLD HIGHWAY 141 63026	\$	7,200	420.8	424.5	3.8	Relocation	\$	7,200
3480	340170000002 5	7390 TWIN RIVER RD 63025	\$	10,500	448.9	452.7	3.8	Elevation	\$	39,803
3331	250150100104 3	475 ROMAINE CREEK RD 63026	\$	10,500	420.4	424.4	4.0	Acquisition	\$	55,500
3301	220100400100 7		\$	78,600	420.4	424.5	4.0	Acquisition	\$	123,600
3435	260240200500 3	1090 MISSOURI STATE RD 63010	\$	39,300	419.8	423.9	4.1	Elevation	\$	63,441
3725	021011030010 38-08	117 COVERED BRIDGE CT 63026	\$	7,200	420.3	424.5	4.2	Relocation	\$	7,200
3265	210110300100 6	105 LAVERNAL DR 63026	\$	52,800	420.3	424.5	4.3	Acquisition	\$	97,800
3634	021011020010 0617-14	1726 OLD HIGHWAY 141 63026	\$	7,200	419.9	424.2	4.3	Relocation	\$	7,200
3644	021011020010 16-04	120 BABS LN 63026	\$	7,200	420.0	424.5	4.4	Relocation	\$	7,200
3650	021011020010 16-10	120 BABS LN 63026	\$	7,200	420.0	424.5	4.5	Relocation	\$	7,200
3504	340170000009 2	2958 RIVER BEND ACRES RD 63025	\$	1,500	448.6	453.1	4.5	Elevation	\$	34,793
3641	021011020010 16-01	120 BABS LN 63026	\$	7,200	419.8	424.3	4.6	Relocation	\$	7,200
3505	340170000009 4	2964 RIVER BEND ACRES RD 63025	\$	28,500	448.4	453.1	4.6	Elevation	\$	32,473
3398	260140400100 2	2612 OLD HIGHWAY 141 63026	\$	14,100	419.6	424.3	4.7	Acquisition	\$	59,100
3535	340180000302 8	19 RIVER ENDS DR 63025	\$	11,100	448.7	453.5	4.7	Elevation	\$	34,455

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3636	021011020010 0617-09	1726 OLD HIGHWAY 141 63026	\$	7,200	419.6	424.3	4.8	Relocation	\$	7,200
3457	260240300200 4	1257 PEBBLE LN 63010	\$	28,800	419.2	423.9	4.8	Elevation	\$	69,948
3494	340170000006 6	2790 RIVER BEND ACRES RD 63025	\$	19,200	448.3	453.1	4.8	Acquisition	\$	67,800
3630	021011020010 0617-16	1726 OLD HIGHWAY 141 63026	\$	7,200	419.7	424.5	4.8	Relocation	\$	7,200
3647	021011020010 16-07	120 BABS LN 63026	\$	7,200	419.7	424.6	4.9	Relocation	\$	7,200
3524	340180000300 1	550 LAFARGE DR 63025	\$	75,000	448.7	453.6	4.9	Elevation	\$	51,559
3362	260140200101 2	469 ROMAINE CREEK DR 63026	\$	25,500	419.5	424.5	5.0	Elevation	\$	56,148
3440	260240200600 7	1100 MISSOURI STATE RD 63010	\$	13,800	418.2	423.2	5.1	Acquisition	\$	88,653
3361	260140200101 1	463 ROMAINE CREEK RD 63026	\$	29,100	419.4	424.5	5.1	Elevation	\$	46,791
3433	260240200401 2	1072 LAKE DR 63010	\$	24,600	418.8	423.9	5.1	Elevation	\$	49,830
3742	021011030010 38-25	117 COVERED BRIDGE CT 63026	\$	7,200	419.2	424.5	5.3	Relocation	\$	7,200
3246	210110100100 5	1499 CORISANDE HILL RD 63026	\$	11,400	419.5	424.8	5.3	Elevation	\$	41,793
3652	021011020010 16-12	120 BABS LN 63026	\$	7,200	419.0	424.5	5.5	Relocation	\$	7,200
3660	021011020010 16-20	120 BABS LN 63026	\$	7,200	419.0	424.5	5.5	Relocation	\$	7,200
3432	260240200400 902	1090 LAKE DR 63010	\$	9,300	418.3	423.8	5.6	Elevation	\$	56,059
3649	021011020010 16-09	120 BABS LN 63026	\$	7,200	418.9	424.5	5.6	Relocation	\$	7,200
3651	021011020010 16-11	120 BABS LN 63026	\$	7,200	418.8	424.5	5.6	Relocation	\$	7,200
3662	021011020010 16-22	120 BABS LN 63026	\$	7,200	418.8	424.5	5.7	Relocation	\$	7,200

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3646	021011020010 16-05	120 BABS LN 63026	\$	7,200	418.6	424.5	5.8	Relocation	\$	7,200
3439	260240200600 6	1394 MEADOW DR 63010	\$	31,800	418.0	423.9	5.9	Elevation	\$	63,119
3654	021011020010 16-15	120 BABS LN 63026	\$	7,200	418.6	424.5	5.9	Relocation	\$	7,200
3657	021011020010 16-17	120 BABS LN 63026	\$	7,200	418.5	424.5	6.0	Relocation	\$	7,200
3645	021011020010 16-06	120 BABS LN 63026	\$	7,200	418.5	424.5	6.0	Relocation	\$	7,200
3661	021011020010 16-21	120 BABS LN 63026	\$	7,200	418.6	424.6	6.0	Relocation	\$	7,200
3263	210110200102 5	1850 OLD HIGHWAY 141 63026	\$	7,200	418.4	424.5	6.0	Relocation	\$	7,200
3653	021011020010 16-13	120 BABS LN 63026	\$	7,200	418.5	424.5	6.1	Relocation	\$	7,200
3655	021011020010 16-14	120 BABS LN 63026	\$	7,200	418.3	424.5	6.2	Relocation	\$	7,200
3663	021011020010 16-23	120 BABS LN 63026	\$	7,200	418.3	424.5	6.2	Relocation	\$	7,200
3360	260140200100 8	445 ROMAINE CREEK RD 63026	\$	7,200	418.2	424.5	6.3	Relocation	\$	7,200
3664	021011020010 16-24	120 BABS LN 63026	\$	7,200	418.1	424.5	6.4	Relocation	\$	7,200
3503	340170000009 1	2950 RIVER BEND ACRES RD 63025	\$	19,500	446.7	453.1	6.4	Elevation	\$	31,945
3648	021011020010 16-08	120 BABS LN 63026	\$	7,200	418.1	424.6	6.4	Relocation	\$	7,200
3520	340180000203 801	7695 TWIN RIVER RD 63025	\$	40,500	446.9	453.3	6.4	Elevation	\$	39,054
3658	021011020010 16-18	120 BABS LN 63026	\$	7,200	418.0	424.4	6.5	Relocation	\$	7,200
3394	260140300101 1		\$	117,600	418.2	424.7	6.5	Acquisition	\$	162,600
3493	340170000006 5	2782 RIVER BEND ACRES RD 63025	\$	2,100	446.4	453.0	6.6	Acquisition	\$	49,660

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3502	3401700000090	2944 RIVER BEND ACRES RD 63025	\$	28,200	446.5	453.2	6.7	Elevation	\$	29,487
3659	02101102001016-19	120 BABS LN 63026	\$	7,200	417.8	424.6	6.8	Relocation	\$	7,200
3428	2602402004002	1002 OLD MISSOURI STATE RD 63010	\$	27,300	417.1	424.0	6.8	Acquisition	\$	72,300
3528	3401800003011	14 RIVER ENDS DR 63025	\$	22,200	447.2	454.0	6.8	Acquisition	\$	71,743
3656	02101102001016-16	120 BABS LN 63026	\$	7,200	417.6	424.5	7.0	Relocation	\$	7,200
3719	02101103001038-07	117 COVERED BRIDGE CT 63026	\$	7,200	417.3	424.5	7.2	Relocation	\$	7,200
3267	2101103001010	120 LAVERNEL DR 63026	\$	33,000	417.1	424.3	7.2	Elevation	\$	78,721
3736	02101103001038-19	117 COVERED BRIDGE CT 63026	\$	7,200	417.2	424.5	7.3	Relocation	\$	7,200
3270	2101103001016	223 COOL VALLEY DR 63026	\$	41,100	417.0	424.6	7.6	Elevation	\$	40,422
3489	3401700000040	7214 TWIN RIVER RD 63025	\$	29,100	445.3	453.0	7.7	Acquisition	\$	127,651
3730	02101103001038-13	117 COVERED BRIDGE CT 63026	\$	7,200	416.9	424.6	7.7	Relocation	\$	7,200
3359	2601402001006	433 ROMAINE CREEK RD 63026	\$	7,200	416.7	424.4	7.7	Relocation	\$	7,200
3271	2101103001023	242 COOL VALLEY DR 63026	\$	70,200	416.7	424.4	7.7	Elevation	\$	112,459
3675	02101103001036-11	1 COLONY LN 63026	\$	7,200	416.7	424.5	7.7	Relocation	\$	7,200
3527	3401800003006	570 LAFARGE DR 63025	\$	14,400	445.8	453.6	7.8	Elevation	\$	22,530
3262	2101102001019	125 LAVERNEL DR 63026	\$	45,000	416.7	424.6	7.9	Elevation	\$	44,173
3682	02101103001036-18	1 COLONY LN 63026	\$	7,200	416.2	424.5	8.3	Relocation	\$	7,200
3529	3401800003012	20 RIVER ENDS DR 63025	\$	11,700	445.1	453.5	8.4	Acquisition	\$	60,220

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3688	021011030010 36-24	1 COLONY LN 63026	\$	7,200	415.9	424.5	8.6	Relocation	\$	7,200
3534	340180000302 7	23 RIVER ENDS DR 63025	\$	9,000	444.9	453.5	8.6	Elevation	\$	25,950
3674	021011030010 36-10	1 COLONY LN 63026	\$	7,200	415.8	424.6	8.8	Relocation	\$	7,200
3740	021011030010 38-23	117 COVERED BRIDGE CT 63026	\$	7,200	415.5	424.3	8.9	Relocation	\$	7,200
3718	021011030010 38-01	117 COVERED BRIDGE CT 63026	\$	7,200	415.5	424.4	8.9	Relocation	\$	7,200
3476	340170000000 401	7230 TWIN RIVER RD 63025	\$	17,400	444.2	453.1	8.9	Elevation	\$	34,601
3564	410120000002 1	641 WILLMAN RD 63025	\$	7,200	446.5	455.5	9.0	Elevation	\$	26,761
3577	460130000103 501	2993 STATE RD W 63025	\$	13,200	444.6	453.6	9.0	Elevation	\$	32,873
3522	340180000204 0	7716 TWIN RIVER RD 63025	\$	20,700	444.4	453.4	9.0	Acquisition	\$	65,700
3566	410120000002 6	646 WILLMAN RD 63025	\$	11,100	446.5	455.5	9.0	Elevation	\$	58,842
3525	340180000300 102	533 LAFARGE DR 63025	\$	10,800	444.6	453.6	9.0	Acquisition	\$	59,200
3681	021011030010 36-17	1 COLONY LN 63026	\$	7,200	415.3	424.5	9.2	Relocation	\$	7,200
3565	410120000002 5	645 WILLMAN RD 63025	\$	7,500	446.3	455.5	9.2	Elevation	\$	42,246
3733	021011030010 38-16	117 COVERED BRIDGE CT 63026	\$	7,200	415.2	424.5	9.2	Relocation	\$	7,200
3686	021011030010 36-22	1 COLONY LN 63026	\$	7,200	415.3	424.5	9.2	Relocation	\$	7,200
3533	340180000302 1		\$	18,000	444.4	453.6	9.2	Elevation	\$	34,766
3691	021011030010 36-27	1 COLONY LN 63026	\$	7,200	415.2	424.5	9.3	Relocation	\$	7,200
3563	410120000002 0	640 WILLMAN RD 63025	\$	12,300	446.2	455.5	9.3	Elevation	\$	70,913

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3579	4601300001066	2760 STATE RD W 63025	\$	6,300	444.2	453.6	9.4	Elevation	\$	42,623
3690	02101103001036-26	1 COLONY LN 63026	\$	7,200	415.2	424.6	9.4	Relocation	\$	7,200
3695	02101103001036-31	1 COLONY LN 63026	\$	7,200	415.1	424.5	9.5	Relocation	\$	7,200
3744	02101103001038-27	117 COVERED BRIDGE CT 63026	\$	7,200	415.0	424.5	9.5	Relocation	\$	7,200
3530	3401800003013	26 RIVER ENDS DR 63025	\$	22,200	443.8	453.5	9.7	Elevation	\$	37,621
3673	02101103001036-09	1 COLONY LN 63026	\$	7,200	414.8	424.5	9.7	Relocation	\$	7,200
3692	02101103001036-28	1 COLONY LN 63026	\$	7,200	414.7	424.4	9.7	Relocation	\$	7,200
3526	3401800003003	562 LAFARGE DR 63025	\$	27,900	443.8	453.6	9.8	Elevation	\$	47,026
3666	02101103001036-02	1 COLONY LN 63026	\$	7,200	414.7	424.5	9.8	Relocation	\$	7,200
3492	3401700000064	2783 RIVER BEND ACRES RD 63025	\$	14,100	443.3	453.1	9.8	Acquisition	\$	62,700
3586	4602300000010	2935 STATE RD FF 63025	\$	3,000	447.5	457.3	9.8	Acquisition	\$	48,000
3532	3401800003016	46 RIVER ENDS DR 63025	\$	19,500	443.9	453.8	9.8	Acquisition	\$	67,700
3689	02101103001036-25	1 COLONY LN 63026	\$	7,200	414.6	424.5	9.9	Relocation	\$	7,200
3683	02101103001036-19	1 COLONY LN 63026	\$	7,200	414.5	424.5	10.0	Relocation	\$	7,200
3696	02101103001036-32	1 COLONY LN 63026	\$	7,200	414.4	424.5	10.1	Relocation	\$	7,200
3684	02101103001036-20	1 COLONY LN 63026	\$	7,200	414.3	424.4	10.1	Relocation	\$	7,200
3531	3401800003015	40 RIVER ENDS DR 63025	\$	17,100	443.4	453.5	10.2	Acquisition	\$	64,700
3491	3401700000049	2718 RIVER BEND ACRES RD 63025	\$	1,200	442.9	453.1	10.3	Acquisition	\$	48,760

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3739	021011030010 38-22	117 COVERED BRIDGE CT 63026	\$	7,200	413.9	424.3	10.3	Relocation	\$	7,200
3685	021011030010 36-21	1 COLONY LN 63026	\$	7,200	414.1	424.5	10.4	Relocation	\$	7,200
3735	021011030010 38-18	117 COVERED BRIDGE CT 63026	\$	7,200	414.0	424.5	10.4	Relocation	\$	7,200
3745	021011030010 38-28	117 COVERED BRIDGE CT 63026	\$	7,200	414.1	424.6	10.5	Relocation	\$	7,200
3693	021011030010 36-29	1 COLONY LN 63026	\$	7,200	413.9	424.5	10.6	Relocation	\$	7,200
3438	260240200600 3		\$	10,500	413.3	423.9	10.6	Acquisition	\$	55,500
3743	021011030010 38-26	117 COVERED BRIDGE CT 63026	\$	7,200	413.8	424.5	10.6	Relocation	\$	7,200
3694	021011030010 36-30	1 COLONY LN 63026	\$	7,200	413.9	424.5	10.6	Relocation	\$	7,200
3732	021011030010 38-14	117 COVERED BRIDGE CT 63026	\$	7,200	413.8	424.5	10.7	Relocation	\$	7,200
3734	021011030010 38-17	117 COVERED BRIDGE CT 63026	\$	7,200	413.6	424.3	10.7	Relocation	\$	7,200
3737	021011030010 38-20	117 COVERED BRIDGE CT 63026	\$	7,200	413.7	424.5	10.8	Relocation	\$	7,200
3441	260240200600 9		\$	150,900	412.9	423.7	10.8	Acquisition	\$	195,900
3509	340180000100 501	8004 TWIN RIVER RD 63025	\$	194,400	442.4	453.3	10.9	Elevation	\$	149,413
3738	021011030010 38-21	117 COVERED BRIDGE CT 63026	\$	7,200	413.5	424.5	11.0	Relocation	\$	7,200
3390	260140200106 2	2291 OLD HIGHWAY 141 63026	\$	231,000	413.5	424.9	11.4	Elevation	\$	195,470
3523	340180000204 2		\$	9,900	441.9	453.3	11.4	Elevation	\$	29,396
3727	021011030010 38-10	117 COVERED BRIDGE CT 63026	\$	7,200	412.5	424.4	11.9	Relocation	\$	7,200
3729	021011030010 38-12	117 COVERED BRIDGE CT 63026	\$	7,200	412.4	424.5	12.1	Relocation	\$	7,200

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3746	021011030010 38-29	117 COVERED BRIDGE CT 63026	\$	7,200	412.4	424.5	12.1	Relocation	\$	7,200
3731	021011030010 38-15	117 COVERED BRIDGE CT 63026	\$	7,200	412.3	424.5	12.2	Relocation	\$	7,200
3517	340180000202 6		\$	1,200	440.9	453.2	12.2	Elevation	\$	11,187
3562	410120000001 5	636 WILLMAN RD 63025	\$	19,500	443.2	455.5	12.3	Elevation	\$	59,412
3722	021011030010 38-04	117 COVERED BRIDGE CT 63026	\$	7,200	412.0	424.5	12.4	Relocation	\$	7,200
3274	210110300103 702		\$	16,200	411.3	424.5	13.2	Acquisition	\$	61,200
3358	260140200100 2	2285 OLD HIGHWAY 141 63026	\$	891,300	411.1	424.5	13.4	Elevation	\$	235,524
3276	210110300104 2	2280 OLD HIGHWAY 141 63026	\$	54,000	411.1	424.6	13.5	Acquisition	\$	99,000
3518	340180000203 6	7660 TWIN RIVER RD 63025	\$	52,200	439.0	452.7	13.7	Elevation	\$	77,978
3536	340180000303 0	76 RIVER ENDS DR 63025	\$	13,200	437.8	453.5	15.7	Elevation	\$	32,426
3513	340180000104 7	2500 TWIN RIVER PARK RD 63025	\$	8,700	430.9	453.1	22.2	Acquisition	\$	53,700
TOTAL COST OF MITIGATION IN UNINCORPORATED JEFFERSON COUNTY									\$	9,345,439

UNINCORPORATED ST. LOUIS COUNTY LIST OF NONSTRUCTURAL MITIGATION RECOMMENDATIONS

XID	Parcel ID	Address	Appraised Value	First Floor Elevation (ft.)	1% Flood Elevation (ft.)	1% AEP Flood Depth Relative to First Floor (ft.)	Mitigation Recommendation	Mitigation Cost
2804	Unavailable	6155 HUNTERS FORD RD	\$ 146,800	459.8	456.2	-3.6	Fill subfloor, relocate utilities, sewer check valve	\$ 27,670
1253	Unavailable	441 N OUTER RD	\$ 776,800	440.8	438.3	-2.5	Sewer check valve	\$ 1,600
1347	Unavailable	3610 TREE COURT INDUSTRIAL BLVD	\$ 1,746,400	433.7	432.3	-1.5	Sewer check valve	\$ 1,600
2327	Unavailable	10701 SCHUESSLER RD	\$ 274,200	426.0	424.9	-1.1	Fill subfloor, sewer check valve	\$ 4,960
2173	Unavailable	4631 MERAMEC BOTTOM RD	\$ 342,700	423.4	422.8	-0.6	Fill subfloor, sewer check valve	\$ 13,267
1160	Unavailable	510 LARRY ELLIOTT DR	\$ 163,000	443.4	442.9	-0.4	Sewer check valve	\$ 1,600
2669	Unavailable	3406 BAUMGARTNER RD	\$ 201,500	419.4	419.2	-0.2	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 78,878
1918	Unavailable	18854 FRANKLIN RD	\$ 161,500	461.4	461.4	0.0	Floodproof, sewer check valve	\$ 59,270
2738	Unavailable	10488 STARHILL DR	\$ 211,400	431.4	431.9	0.5	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 87,110
2729	Unavailable	58 1ST ST	\$ 36,400	442.5	442.9	0.5	Floodproof, sewer check valve	\$ 21,748
1317	Unavailable	3565 TREE COURT INDUSTRIAL BLVD	\$ 1,070,500	431.9	432.4	0.5	Floodproof, sewer check valve	\$ 879,038
2911	Unavailable	368 STONEWALL DR	\$ 69,500	442.2	443.1	0.9	Floodproof, sewer check valve	\$ 63,538
2706	Unavailable	3311 YAEGER RD	\$ 60,700	418.6	419.6	1.0	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 41,161
2612	Unavailable	3667 BAUMGARTNER RD	\$ 147,600	418.3	419.5	1.2	Floodproof, sewer check valve	\$ 26,669
2576	Unavailable	3682 BAUMGARTNER RD	\$ 47,000	418.3	419.6	1.3	Floodproof, sewer check valve	\$ 10,905
2849	Unavailable	4401 MERAMEC BOTTOM RD	\$ 5,681,400	420.5	422.0	1.5	Floodproof, sewer check valve	\$ 417,909

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1161	Unavailable	520 LARRY ELLIOTT DR	\$ 160,000	441.1	442.7	1.6	Floodproof, sewer check valve	\$ 32,382
1234	Unavailable	575 LARRY ELLIOTT DR	\$ 54,600	440.8	442.5	1.7	Floodproof, sewer check valve	\$ 27,042
1275	Unavailable	2477 MARSHALL RD	\$ 1,124,000	430.6	432.3	1.7	Floodproof, sewer check valve	\$ 143,386
2727	Unavailable	10476 STARHILL DR	\$ 181,500	428.9	430.7	1.8	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 66,377
1315	Unavailable	3585 TREE COURT INDUSTRIAL BLVD	\$ 831,900	430.1	431.9	1.8	Floodproof, sewer check valve	\$ 587,772
2310	Unavailable	10491 SCHUESSLER RD	\$ 213,100	423.2	425.2	1.9	Floodproof, fill subfloor, sewer check valve	\$ 36,143
1929	Unavailable	100 FRANKLIN RD	\$ 96,500	459.5	461.7	2.2	Floodproof, sewer check valve	\$ 17,341
2640	Unavailable	3644 BAUMGARTNER RD	\$ 6,200	417.4	419.6	2.3	Acquisition	\$ 100,011
1354	Unavailable	3630 SCARLET OAK BLVD	\$ 677,900	429.7	432.0	2.3	Acquisition	\$ 722,900
2758	Unavailable	3638 BAUMGARTNER RD	\$ 8,900	417.2	419.6	2.4	Acquisition	\$ 113,193
1290	Unavailable	3644 SCARLET OAK BLVD	\$ 1,667,200	429.7	432.3	2.6	Acquisition	\$ 1,712,200
2740	Unavailable	10464 STARHILL DR	\$ 143,100	430.5	433.1	2.6	Floodproof, fill subfloor, relocate utilities, sewer check valve	\$ 57,390
1833	Unavailable	1 SOCCER PARK RD	\$ 3,423,300	427.1	429.9	2.8	Floodproof, sewer check valve	\$ 592,350
1303	Unavailable	3636 TREE COURT INDUSTRIAL BLVD	\$ 1,991,000	429.1	432.2	3.1	Acquisition	\$ 2,036,000
1190	Unavailable	4111 CRESCENT RD	\$ 2,427,800	440.9	444.2	3.3	Elevation	\$ 199,372
1312	Unavailable	3615 TREE COURT INDUSTRIAL BLVD	\$ 1,434,100	428.7	432.3	3.6	Acquisition	\$ 1,479,100
1169	Unavailable	1 RIVERSIDE FARM DR	\$ 210,700	440.1	444.3	4.2	Elevation	\$ 175,281
2185	Unavailable	4673 MERAMEC BOTTOM RD	\$ 116,500	418.4	422.9	4.5	Elevation	\$ 79,979
2085	Unavailable	6111 BUTLER HILL RD	\$ 2,550,600	419.9	424.4	4.5	Elevation	\$ 136,725
2642	Unavailable	3480 BAUMGARTNER RD	\$ 113,500	414.7	419.4	4.7	Elevation	\$ 98,822
2181	Unavailable	13933 TESSON FERRY RD	\$ 79,900	419.5	424.3	4.8	Elevation	\$ 92,904
2739	Unavailable	60 1ST ST	\$ 33,500	438.0	442.9	4.9	Elevation	\$ 32,753
2321	Unavailable	10707 SCHUESSLER RD	\$ 259,900	420.0	425.0	5.0	Elevation	\$ 91,234
2641	Unavailable	3683 BAUMGARTNER RD	\$ 41,600	414.4	419.5	5.1	Elevation	\$ 100,491
1243	Unavailable	3 RIVERSIDE FARM DR	\$ 79,500	438.5	444.2	5.7	Elevation	\$ 68,284
1168	Unavailable	509 PALISADES RD	\$ 28,100	438.0	443.8	5.8	Elevation	\$ 33,584

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1311	Unavailable	3645 TREE COURT INDUSTRIAL BLVD	\$ 1,378,200	426.6	432.4	5.8	Acquisition	\$ 1,423,200
1189	Unavailable	540 LARRY ELLIOTT DR	\$ 160,800	436.8	442.7	5.8	Elevation	\$ 75,757
2846	Unavailable	454 AUGUSTINE RD	\$ 509,300	445.1	451.5	6.4	Elevation	\$ 51,574
1191	Unavailable	98 RIVERSIDE FARM DR	\$ 110,700	437.9	444.3	6.4	Elevation	\$ 107,206
1309	Unavailable	3701 TREE COURT INDUSTRIAL BLVD	\$ 815,500	424.7	432.2	7.5	Acquisition	\$ 860,500
1574	Unavailable	521 YARNELL RD	\$ 2,600	421.5	429.8	8.3	Acquisition	\$ 87,295
1748	Unavailable	572 YARNELL RD	\$ 5,300	422.5	430.9	8.4	Acquisition	\$ 94,051
1506	Unavailable	527 YARNELL RD 1/2	\$ 10,700	421.8	430.4	8.6	Acquisition	\$ 97,947
2619	Unavailable	3434 BAUMGARTNER RD	\$ 126,100	410.7	419.4	8.7	Elevation	\$ 70,578
2726	Unavailable	5360 MELBOURNE DR	\$ 66,300	410.4	420.3	10.0	Elevation	\$ 62,765
1288	Unavailable	3670 SCARLET OAK BLVD	\$ 577,200	422.1	432.2	10.1	Acquisition	\$ 622,200
2573	Unavailable	14 KASSEBAUM LN	\$ 31,900	410.4	421.1	10.8	Acquisition	\$ 76,900
2736	Unavailable	10726 SCHUESSLER RD	\$ 328,800	414.0	425.0	11.0	Elevation	\$ 177,590
1183	Unavailable	5 RIVERSIDE FARM DR	\$ 19,200	433.1	444.3	11.2	Acquisition	\$ 64,200
2064	Unavailable	5821 BUTLER HILL RD	\$ 179,100	413.4	425.1	11.7	Elevation	\$ 209,720
1294	Unavailable	2485 MARSHALL RD	\$ 533,100	420.8	432.8	12.0	Elevation	\$ 80,709
2788	Unavailable	788 AUGUSTINE RD	\$ 201,000	440.0	452.1	12.0	Elevation	\$ 76,616
2587	Unavailable	600 KASSEBAUM LN	\$ 20,400	408.2	421.1	12.9	Acquisition	\$ 125,035
1205	Unavailable	139 DIECKE RD	\$ 22,300	435.5	448.6	13.1	Acquisition	\$ 67,300
2737	Unavailable	10730 SCHUESSLER RD	\$ 268,800	411.1	425.2	14.1	Elevation	\$ 100,057
1744	Unavailable	566 YARNELL RD	\$ 3,600	416.6	431.0	14.4	Acquisition	\$ 89,389
2698	Unavailable	3811 GREEN RD	\$ 23,100	403.1	418.3	15.2	Acquisition	\$ 73,347
1291	Unavailable	2482 MARSHALL RD	\$ 421,700	417.4	432.6	15.2	Elevation	\$ 104,556
2825	Unavailable	556 YARNELL RD	\$ 6,400	414.2	430.7	16.6	Acquisition	\$ 89,545
2118	Unavailable	7311 WILLOW BEACH DR	\$ 23,000	404.8	423.9	19.1	Elevation	\$ 44,559
TOTAL COST OF MITIGATION IN UNINCORPORATED ST. LOUIS COUNTY								\$ 15,502,537

CITY OF VALLEY PARK LIST OF NONSTRUCTURAL MITIGATION RECOMMENDATIONS

XID	Parcel ID	Address	Appraised Value	First Floor Elevation (ft.)	1% Flood Elevation (ft.)	1% AEP Flood Depth Relative to First Floor (ft.)	Mitigation Recommendation	Mitigation Cost
2336	Unavailable	2109 SMIZER STATION RD	\$ 1,459,900	438.4	436.0	-2.5	Sewer check valve	\$ 1,600
1226	Unavailable	421 N OUTER RD	\$ 284,800	440.2	438.3	-1.8	Sewer check valve	\$ 1,600
2950	Unavailable	260 VANCE RD	\$ 1,075,900	437.0	437.0	0.0	Floodproof, sewer check valve	\$ 123,913
1227	Unavailable	427 N OUTER RD	\$ 1,738,100	438.2	438.3	0.0	Floodproof, sewer check valve	\$ 428,589
3069	Unavailable	1401 SUMMERTREE SPRINGS AVE K	\$ 86,600	436.7	436.9	0.2	Floodproof, fill subfloor, sewer check valve	\$ 27,107
3062	Unavailable	1409 SUMMERTREE SPRINGS AVE A	\$ 86,600	436.9	437.1	0.2	Floodproof, fill subfloor, sewer check valve	\$ 27,107
2364	Unavailable	2099 SMIZER STATION RD	\$ 962,100	435.3	435.9	0.6	Floodproof, sewer check valve	\$ 81,075
1674	Unavailable	298 VANCE RD	\$ 539,000	436.4	437.1	0.7	Floodproof, sewer check valve	\$ 88,957
1642	Unavailable	530 VANCE RD	\$ 564,300	436.1	437.1	1.0	Floodproof, sewer check valve	\$ 192,358
1192	Unavailable	40 S ELAM AVE	\$ 228,500	435.4	436.7	1.2	Floodproof, sewer check valve	\$ 18,414
3063	Unavailable	1408 SUMMERTREE SPRINGS AVE G	\$ 85,500	435.6	436.8	1.3	Floodproof, fill subfloor, sewer check valve	\$ 27,107
3081	Unavailable	1400 SUMMERTREE SPRINGS AVE D	\$ 86,100	436.3	437.7	1.4	Floodproof, fill subfloor, sewer check valve	\$ 27,107
2817	Unavailable	280 VANCE RD	\$ 630,000	435.4	436.9	1.5	Floodproof, sewer check valve	\$ 503,213
2932	Unavailable	49 OLD ELAM AVE	\$ 480,900	434.8	436.5	1.7	Floodproof, sewer check valve	\$ 32,196
2366	Unavailable	80 SOUTH HIGHWAY DR	\$ 771,700	433.9	435.8	1.9	Floodproof, sewer check valve	\$ 146,697
2343	Unavailable	2115 SMIZER STATION RD	\$ 675,900	434.0	435.9	1.9	Floodproof, sewer check valve	\$ 59,830
1225	Unavailable	401 N OUTER RD	\$ 1,017,600	436.0	438.1	2.1	Floodproof, sewer check valve	\$ 457,366
3039	Unavailable	232 VANCE RD	\$ 1,936,300	435.1	437.4	2.3	Floodproof, sewer check valve	\$ 369,473
2356	Unavailable	90 SOUTH HIGHWAY DR	\$ 8,300	432.8	435.7	2.9	Acquisition	\$ 53,300

Lower Meramec Basin
Multi-Jurisdictional Floodplain Management Plan
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2358	Unavailable	998 MERAMEC STATION RD	\$ 78,500	435.0	438.1	3.1	Elevation	\$ 28,003
3003	Unavailable	144 VANCE RD	\$ 611,200	433.4	436.8	3.4	Elevation	\$ 130,258
1235	Unavailable	239 N OUTER RD	\$ 842,600	434.3	438.2	3.8	Acquisition	\$ 887,600
2355	Unavailable	76 SOUTH HIGHWAY DR	\$ 1,174,600	431.9	435.9	4.0	Elevation	\$ 189,965
2934	Unavailable	75 SHADY LN	\$ 550,100	433.0	437.2	4.2	Elevation	\$ 161,514
2936	Unavailable	200 S ELAM AVE	\$ 250,000	432.3	437.0	4.7	Elevation	\$ 229,719
2935	Unavailable	300 S ELAM AVE	\$ 240,000	432.4	437.2	4.8	Acquisition	\$ 285,000
2953	Unavailable	12 MAIN ST	\$ 92,500	431.5	436.8	5.3	Elevation	\$ 63,119
2814	Unavailable	16 MAIN ST	\$ 110,800	431.4	436.7	5.4	Elevation	\$ 49,020
1252	Unavailable	201 N OUTER RD	\$ 508,000	430.7	437.6	6.9	Acquisition	\$ 553,000
2734	Unavailable	102 S ELAM AVE	\$ 1,226,800	428.8	436.8	8.0	Acquisition	\$ 1,271,800
3012	Unavailable	333 HILLSBORO RD	\$ 541,100	430.1	438.2	8.1	Acquisition	\$ 586,100
2952	Unavailable	19 VANCE RD	\$ 200,000	428.3	436.7	8.4	Acquisition	\$ 245,000
1453	Unavailable	1112 CAL HEDRICK WAY	\$ 33,300	423.4	432.9	9.5	Elevation	\$ 45,263
2905	Unavailable	1000 ST LOUIS AVE	\$ 1,100,800	421.3	432.8	11.6	Elevation	\$ 56,098
1721	Unavailable	1100 ST LOUIS AVE	\$ 183,200	420.9	433.0	12.1	Acquisition	\$ 228,200
1251	Unavailable	165 N OUTER RD	\$ 479,600	424.4	436.8	12.4	Acquisition	\$ 524,600
1254	Unavailable	145 N OUTER RD	\$ 224,700	423.7	437.0	13.3	Elevation	\$ 76,125
2339	Unavailable	1090 MERAMEC STATION RD	\$ 19,800	419.0	438.2	19.2	Acquisition	\$ 64,800
TOTAL COST OF MITIGATION IN VALLEY PARK								\$ 8,342,193

CITY OF WILDWOOD LIST OF NONSTRUCTURAL MITIGATION RECOMMENDATIONS

XID	Parcel ID	Address	Appraised Value	First Floor Elevation (ft.)	1% Flood Elevation (ft.)	1% AEP Flood Depth Relative to First Floor (ft.)	Mitigation Recommendation	Mitigation Cost
2723	Unavailable	3316 WHITSETTS FORK RD	\$ 409,400	444.2	444.2	0.0	Floodproof, fill subfloor, sewer check valve	\$ 75,030
1156	Unavailable	303 JEFFERSON AVE	\$ 82,200	444.0	444.4	0.4	Floodproof, sewer check valve	\$ 37,513
1215	Unavailable	212 VALLEY DR	\$ 14,100	441.7	444.2	2.4	Floodproof, sewer check valve	\$ 17,271
2055	Unavailable	3369 HIGHWAY 109 ST	\$ 263,600	440.6	444.1	3.5	Acquisition	\$ 308,600
2054	Unavailable	17301 RADCLIFFE PLACE DR	\$ 140,200	440.4	444.2	3.8	Elevation	\$ 75,646
TOTAL COST OF MITIGATION IN WILDWOOD								\$ 514,060

