

Environmental Review Checklist
American Rescue Plan Act
EA

Project Information

Project Name: Santa Fe ARPA TX1378 EA-drainage

FAIN (Federal Award Identification Number)# 1378 EA

Responsible Entity: City of Santa Fe

Preparer: Cave Consulting, Inc.

Certifying Officer Name and Title: Alun Thomas, Acting City Manager

Consultant (if applicable): Public Management, Inc.

Direct Comments to:

City of Santa Fe
12002 State Hwy 6
Santa Fe, Texas 77510
(409) 925-6412
Email: rzepeda@ci.santa-fe.tx.us

Funding Information

Estimated Total ARP Funded Amount: \$2,100,000

Estimated Total Project Cost (ARPA and non-ARPA funds):

The project will cost \$2,100,000.00 and both the City of Santa Fe and Galveston County are contributing \$1,050,000.00 to this project.

Description of the Proposed Project:

Drainage Improvements:

The project will occur in the City of Santa Fe, Galveston County, Texas in the following location:

- Existing ROW starting at a point 300 L.F. southeast of the intersection of 7th St. and Ave. P (29.38163, -95.09782) to Hwy 6 (29.37585, -95.09765).

The project includes the installation of 2,272 LF of 5'x5' and 8'x 5' RCP and 100 LF of 24" RCP. This new storm drain is to relieve the water off the two subdivisions and thirty-two businesses along HWY 6 and on the south side of the train track. This new storm drain is designed to hold a lot of water and will tie into the existing ditch at WHY 6 and take the water to the Highland Main drainage ditch. The design has 8' by 8' concrete boxes down the Ave P right of way. The project also includes a 20' Storm Sewer Easement.

Land Acquisition

Grantee shall acquire rights-of-way as needed to accommodate construction and carry out all acquisition of needed easements and/or rights-of-way in compliance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (42 U.S.C. 4601 et seq.).

Professional Services including Grant Administrator and Project Engineer activities.

Federal Involvement: American Rescue Plan Act

State Involvement:

The project will be constructed within public ROW managed by a political subdivision of the State of Texas:

Name of Owner: City of Santa Fe

Ground Disturbance:

This project involves ground-disturbing activities:

- 2.6 Acres
- On Ave P the water was 36" deep this new drainage will relieve all that water.

Previous Land Use:

The land is considered "disturbed" property which includes single-family, commercial and agricultural lots (hay field).

Historic Properties: Structures:

The project area or area of potential effects does not include buildings, structures, or designed landscape features (such as parks or cemeteries) that are 45 years of age or older.

The project area or area of potential effects is not within or adjacent to a property or district that is listed in or eligible for listing in the National Register of Historic Places.

There are no buildings, structures, and/or landscape features within the area of potential effect that are 45 years of age or older.

Compliance Factors: Statutes, Executive Orders, and Regulations	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS		
Airport Hazards	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>According to Google Maps and a Military Bases Map the project is not within 2,500 feet of a civilian airport or within 15,000 feet of a military airport.</p> <p>Review is in compliance. (see Airport Hazards)</p>
Coastal Barrier Resources	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>According to the GLO Coastal Barrier Map, the project is not located in a coastal barrier area.</p> <p>Review is in compliance. (See Coastal Barriers)</p>
Flood Insurance	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>According to FEMA floodplain map #48167C0240G (effective date 8/15/19), the entire project will occur within FEMA floodplains: See Floodplain Management</p> <p>The City of Santa Fe is participating in the National Flood Insurance Program. In addition, this project does not require flood insurance.</p> <p>Review is in compliance.</p> <p>(See Flood Insurance and Floodplain Management)</p>

STATUTES, EXECUTIVE ORDERS, AND REGULATIONS		
Clean Air	Yes No <input type="checkbox"/> X	<p>According to the EPA Texas County Nonattainment/Maintenance Status, Galveston County is considered a Non-Attainment area or 1-Hour and 8-Hour Ozone.</p> <p>However, due to the nature of the project, it should be in compliance with the Clean Air Act.</p> <p>Review is in compliance. (See Clean Air)</p>
Coastal Zone Management	Yes No <input type="checkbox"/> X	<p>According to the GLO Coastal Zone Map, the project is located within a Coastal Zone.</p> <p>However, due to the location and type of project, no negative impacts are anticipated to the Coastal Zone.</p> <p>Review is in compliance. (See Coastal Zone Management)</p>

<p>Contamination and Toxic Substances</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>After searching the following state/federal databases, potential sources of contamination which could pose a hazard or would restrict the intended uses of the right-of-way were identified:</p> <p>State Databases:</p> <ul style="list-style-type: none"> ● Industrial and Hazardous Waste (IHW); ● Petroleum Storage Tanks (PST); ● Leaking Petroleum Storage Tanks (LPST); ● Brownfield Site Assessments (BSA); ● State superfund (SF); ● Municipal Solid Waste Landfill Sites (MSWLF); and ● Radio Active Materials ● Superfund ● Voluntary Cleanup ● Closed and Abandoned Landfill Inventory (County). <p>Federal (NEPA Assist Databases):</p> <ul style="list-style-type: none"> ● National Priorities List (NPL); ● Resource Conservation and Recovery Act – Corrective Action (RCRAC); ● Resource Conservation and Recovery Act – Generator (RCRAG); ● Brownfield Management System (BF); ● Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) ● EPA - Cleanup Sites
--	---	---

		<p>Potential Sources of Contamination:</p> <ul style="list-style-type: none">● One (1) LPST facilities within ½ mile of the project area, three (3) of which are on property adjacent to portions of the project route. <p>The City considered the necessity to have a ASTM Phase I or Phase II ESA completed and rejected the idea because:</p> <ul style="list-style-type: none">● All of the LPST's were listed as inactive.● The project will occur above the water line.● The project does not involve construction of a habitable structure. <p>No impact from these facilities is expected. Review is in compliance. (See Contamination and Toxic Substances)</p>
--	--	--

<p>Endangered Species</p>	<p>Yes No <input type="checkbox"/> X</p>	<p>On-site inspection, review of the TPWD County Species List and consultation with the USFWS and TPWD revealed the following:</p> <p>USFWS: <u>Endangered Species:</u> There are a total of eleven (11) threatened, endangered or candidate species that may occur or could potentially be affected by activities in the general project area:</p> <ul style="list-style-type: none"> ● Attwater's Greater Prairie-chicken Tympanuchus cupido attwateri ● Eastern Black Rail Laterallus jamaicensis ssp. jamaice ● Piping Plover (Charadrius melodus) ● Red Knot (Calidris canutus rufa) ● Whooping Crane Grus americana ● Green Sea Turtle Chelonia mydas ● Hawksbill Sea Turtle Eretmochelys imbricata ● Kemp's Ridley Sea Turtle Lepidochelys kempii ● Leatherback Sea Turtle Dermochelys coriacea ● Loggerhead Sea Turtle Caretta caretta ● Monarch Butterfly Danaus plexippus <p>After review of the habitat requirements, it was determined that no habitat is present as all work will occur within existing ROW within a residential area of the City that is frequently disturbed.</p> <p><u>Critical Habitat:</u> None exists.</p> <p><u>Wildlife Refuges and Fish Hatcheries:</u> None exist.</p>
----------------------------------	---	--

		<p><u>Wetlands in the National Wetlands Inventory:</u> According to the USFWS Map, a Riverine wetland is located on property adjacent to the project area.</p> <p>However, according to the project engineer, no work will occur in the wetland, so there will be no disturbance to the wetland.</p> <p>The outfall to Highland Bayou is set 1 foot above the invert elevation of a concrete-lined section of the channel which contains the Riverine Wetland.</p> <p>Since the project will be discharging above the “ordinary high water”, no USACE permits will be required.</p> <p><u>Migratory Birds</u> The habitat for migratory birds does not exist in the project area as all work will occur within existing ROW within a residential area of the City that is frequently disturbed.</p> <p>The proposed project would have “no effect” on federally listed species or critical habitat and no impact on state-listed species.</p> <p>Review is in compliance. (See Endangered Species)</p>
--	--	--

<p>Explosive and Flammable Hazards</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed project does not include a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries) and does not include any of the following activities: development, construction, rehabilitation that will increase residential densities, or conversion. Moreover, this rule does not apply to workers.</p> <p>Review is in compliance. (See Explosive and Flammable Hazards)</p>
<p>Farmlands Protection</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project does not include activities that could convert agricultural land to non-agricultural land.</p> <p>Review is in compliance. (See Farmlands Protection)</p>

<p>Floodplain Management</p>	<p>Yes No <input checked="" type="checkbox"/> <input type="checkbox"/></p>	<p>According to FEMA floodplain map #48167C0240G (effective date 8/15/19), the entire project is either located in Zone X (area of minimal flooding) or:</p> <p><u>500 Year</u></p> <ul style="list-style-type: none"> ● ROW from Castle Road to south 250 LF. ● Area of Disturbance: 0.013 acres <p><u>100 Year</u></p> <ul style="list-style-type: none"> ● ROW - from (29.38163, -95.09782) to Castle Road ● Area of Disturbance: 0.25 acres <p><u>Floodway</u></p> <ul style="list-style-type: none"> ● ROW - (29.38163, -95.09782) ● Area of Disturbance: 0.05 acres <p>The following alternatives were considered:</p> <ol style="list-style-type: none"> 1. Conduct Drainage Work in another Location: The City could have pursued drainage work through subdivisions immediately east of the project site but the work would have been much more disruptive to residents within the area and might not have had the same benefit. The path selected is the most direct path for draining the local residences. (Not Viable) 2. Obtain a Letter of Map Amendment (LOMA) or Letter of Map Revision (LOMR). - The locations in concern are in areas unlikely to qualify for a LOMA and there is insufficient time to apply for a LOMA. (not viable) 3. Other infrastructure considered. - While there is other infrastructure in the City that needs to be addressed, the City concluded that the chosen infrastructure in this project was the highest priority. (not viable)
-------------------------------------	---	---

		<p>4. No Action or Alternative Actions that Serve the Same Purpose. - If this project is not completed, the storm drainage system will continue to be inadequate, which could pose a health threat to the community. (not viable).</p> <p>It is our determination that there is no practical alternative to this project. The following mitigation measures will be implemented:</p> <ul style="list-style-type: none">● Preserving Property: Project designs should, to the best extent possible, incorporate measures to reduce the risk of damage to the new infrastructure via a flood.● Preserving Natural Values and Minimizing Impacts: After construction is completed, disturbed area will need to be immediately re-vegetated with native grasses. Only native plants are to be used in the floodplain and on the site.● Deposition and excavation of materials will need to be performed in such a manner that erosion and sedimentation will be controlled.● Precautions will need to be taken in handling of fuels or other hazardous materials to prevent discharge or spillage resulting in lower groundwater quality.● Erosion control measures such as hay bales or silt screen barriers will need to be implemented and maintained during construction as required.● The project engineer will need to incorporate best management practices into the specifications and plans. <p>Review is in compliance. (See Section 17, Floodplain Management)</p>
--	--	---

<p>Historic Preservation</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>According to the Texas Historical Commission:</p> <p>In responding to questions from states and tribes about the potential applicability of Section 106 to CARES Act and ARP Act funded projects, the ACH determined Congress mandated that these funds be given directly to states and tribes, and some agencies (such as the Department of the Treasury) acted strictly as a pass-through for funds to states or tribes. Since those agencies made no decision in providing the funds, in the ACHP's view, no Section 106 review is required.</p> <p>According to the HUD Tribal Directory Assessment Tool, there are seven (7) tribes with an interest in the County.</p> <p>Comment letters were sent out on August 2, 2022. No responses were received.</p> <p>Review is in compliance. (See Historical Preservation)</p>
<p>Noise Abatement and Control</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project area does not involve noise sensitive facilities use such as a hospital, nursing home, library, etc.</p> <p>During construction, noise levels may increase which could disturb residents in the area. However, activities should occur during working hours which will minimize potential disturbances.</p> <p>Review is in compliance. (See Noise Abatement and Control)</p>

Sole Source Aquifers	Yes No <input type="checkbox"/> X	<p>According to the EPA Sole Source Aquifer Map, the project is not near a sole source aquifer.</p> <p>Review is in compliance. (See Sole Source Aquifers)</p>
Wetlands Protection	Yes No <input type="checkbox"/> X	<p>According to the USFWS Map, a Riverine wetland is located on property adjacent to the project area.</p> <p>However, according to the project engineer, no work will occur in the wetland, so there will be no disturbance to the wetland.</p> <p>The outfall to Highland Bayou is set 1 foot above the invert elevation of a concrete-lined section of the channel which contains the Riverine Wetland.</p> <p>Since the project will be discharging above the “ordinary high water”, no USACE permits will be required.</p> <p>Review is in compliance. (See Wetlands Protection)</p>
Wild and Scenic Rivers	Yes No <input type="checkbox"/> X	<p>According to the Texas Wild and Scenic and Inventory Rivers map, the project is not within a one (1) mile proximity of a designated Wild, Scenic River; Study River or a river segment that potentially qualifies as a national wild, scenic or recreational river area.</p> <p>Review is in compliance. (See Wild and Scenic Rivers)</p>

ENVIRONMENTAL JUSTICE		
Environmental Justice	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	No adverse environmental impacts were identified in any other compliance review portion of this project's total environmental review. All work will occur within existing ROW or ROW to be acquired. Review is in compliance. (See Environmental Justice)

Environmental Assessment Factors

Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.

- (1) Minor beneficial impact
- (2) No impact anticipated
- (3) Minor Adverse Impact – May require mitigation
- (4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	<p>Review of Google Maps and onsite photos indicated that the project is in conformance with local development plans and no special permit or change in zoning will be required as the project involves storm drainage improvements which are already in conformance with local plans. All work will occur within existing ROW or easements to be acquired.</p> <p>The project is in compliance with surrounding land uses and there will be no change in land use.</p> <p>The project does not constitute an activity that would contribute to urban sprawl as it involves improving an existing storm drainage system.</p> <p>There will be no long-term impact of the project on the visual character of its surroundings and ultimately, on the residents, users and/or visitors of the project as the project will involve storm drainage improvements.</p>

<p>Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff</p>	<p>3</p>	<p>According to the National Seismic Hazard map, the project area is in a low-hazard area.</p> <p>The project will not be affected by a high water table as construction activities will occur well above the water line.</p> <p>No soil studies have been conducted. However, the project engineer has determined that the soil is suitable for the project and unsuitable soil conditions are not expected to affect the project.</p> <p>The project will occur within a residential area of the City within existing ROW or ROW to be acquired, will not change any land use and will not significantly affect soils that may be better suited for natural resource management activities such as farming, forestry, unique natural area preservation, etc.</p> <p>Review of aerial photos revealed no steep slopes as the project area is relatively flat.</p> <p>There was no visual indication of previous slides or slumps in the project area, such as tilted trees or fences, that would affect this project. Therefore the project will not significantly affect or be affected by slope conditions.</p> <p>Because the project will involve site clearance, the removal of soil and some native grasses, which could contribute to soil erosion, will likely occur.</p> <p>No erosion or sedimentation is expected to result from this project and erosion controls will be installed.</p> <p>The project involves improving storm sewer facilities which will improve stormwater disposal.</p> <p>There is public storm sewer available in the project area and streets, bar ditches and culverts are also utilized to control stormwater runoff.</p> <p>The project itself will not cause or substantially contribute to off-site pollution by stormwater run-off, leaching of chemicals, or other pollutants nor will it significantly affect or be affected by drainage and stormwater conditions as standard BMP's will be utilized.</p>
---	----------	--

<p>Hazards and Nuisances including Site Safety and Noise</p>	<p>2</p>	<p>Aerial photos revealed that the project will not be affected by natural hazards, but will be affected by man-made hazards during construction: (Underground/Above Ground Utilities).</p> <p>No unusual conditions were found at the site and review of state and federal hazmat databases indicated that the site has not been used as a dump, sanitary landfill or mine waste disposal area.</p> <p>The project will not be affected by any nuisances as it involves improving existing drainage facilities which have been in existence for years and do not constitute a place where people will live, study or work.</p> <p>The project itself is a noise-generating facility but is not located in a noise-sensitive area. Therefore, no such facility will be affected by this project.</p> <p>Potential negative impacts of Hazards and Nuisances including Site Safety will be reduced as state-mandated dig tests will be performed as necessary.</p>
<p>Energy Consumption</p>	<p>3</p>	<p>The project does not involve constructing an energy-using activity but during construction, energy consumption is expected to slightly increase. The additional energy needed for construction activities is anticipated to be negligible and should not significantly impact existing supplies.</p>

Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	1	<p>The project involves storm drainage system improvements which will result in no changes in employment and income patterns, will not significantly increase or decrease employment opportunities and will create conditions favorable to commercial, industrial or institutional operation or development by helping ensure adequate storm drainage is available in the project area.</p>
Demographic Character Changes, Displacement	2	<p>After reviewing project area photos, it was concluded that the project will not have a measurable effect on the demographic character of the area, will not severely alter residential, commercial or industrial uses and will not destroy or harm any community institution, such as a church.</p> <p>The proposed will not cause the relocation or displacement of any residence or business or adversely affect planned development, businesses, residences, or neighborhoods near the project area.</p>

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	<p>Based upon review of aerial photos, the project will not directly serve or be affected by school facilities and there are no such facilities in or near the project area.</p> <p>The project does not involve a housing development and will not directly serve a cultural facility. Therefore, adequate access to cultural facilities, as it pertains to housing, does not apply.</p>
Commercial Facilities	3	<p>The project includes storm sewer improvements which will not directly affect or be affected by commercial facilities and, according to Google Maps, a portion of the project will occur on property adjacent to commercial facilities.</p> <p>During construction, vital utilities such as water, sewer, electricity, phone and internet could be damaged which could negatively impact commercial activities.</p> <p>To help minimize the possibility of damaging these utilities, state-mandated dig tests will be conducted prior to construction.</p>
Health Care and Social Services	2	<p>Based upon review of Google Maps, the project includes storm sewer system improvements which will not directly affect or be affected by health care or social services facilities and there are no such facilities in the project area.</p> <p>Therefore, there will be no impacts to health care and social services facilities.</p>

<p>Solid Waste Disposal / Recycling</p>	<p>2</p>	<p>Based upon review of the project description and Google Maps, the project will not directly serve a solid waste facility and there are no such facilities in the project area.</p> <p>In addition, the project does not involve a housing or commercial development. Therefore, consideration of adequate solid waste disposal/recycling, as it pertains to these activities, does not apply.</p> <p>It is anticipated that waste associated with the project will be generated during construction. The contractor will be responsible for disposing of the waste in accordance to state laws, including those pertaining to hazardous materials.</p> <p>Due to the small amount of waste anticipated to be produced, existing landfill capacities in the area are expected to be adequate.</p>
<p>Waste Water / Sanitary Sewers</p>	<p>3</p>	<p>The project does not involve a housing or commercial development. Therefore, consideration of adequate sewer service, as it pertains to these activities, does not apply.</p> <p>During construction, existing sewer lines could be damaged, which could interrupt service and/or result in raw sewage spills which could pose a health risk to the community.</p> <p>Potential negative impacts to sewer facilities will be reduced as required dig tests will be conducted.</p> <p>As a result of the project, potential raw sewage spills will be prevented which will help the system stay in compliance with state laws.</p>

Water Supply	3	<p>The project does not involve a housing or commercial development and will not directly serve a public safety facility. Therefore, water supply, as it pertains to these activities, does not apply.</p> <p>During construction, existing water lines could be damaged, which could interrupt service which could pose a health risk to the community.</p> <p>Potential negative impacts to water facilities will be reduced as required dig tests will be conducted.</p>
Public Safety - Police, Fire and Emergency Medical	3	<p>The project does not involve a housing or commercial development and will not directly serve a public safety facility. Therefore, adequate police, fire and emergency medical access, as it pertains to these activities, does not apply.</p> <p>According to Google Maps, a Fire Station is located in close proximity to the project area.</p> <p>During construction, vital utilities such as water, sewer, electricity, phone and internet could be damaged which could negatively impact Public Safety Facilities.</p> <p>To help minimize the possibility of damaging these utilities, state-mandated dig tests will be conducted prior to construction.</p>
Parks, Open Space and Recreation	2	<p>The project does not involve a housing development. Therefore, adequate access to parks, open space and recreation, as it pertains to housing, does not apply.</p> <p>According to Google Maps, there are no such areas or facilities in the project area.</p>
Transportation and Accessibility	2	<p>The project does not involve a housing or commercial development. Therefore, adequate access to transportation facilities and parking, as it pertains to these activities, does not apply.</p>

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	<p>Review of Google Maps indicated that there are no natural features (bluffs or cliffs) or public or private scenic areas near the project site.</p> <p>According to the EPA Sole Source Aquifer Map, the project is not near a sole source aquifer.</p>
Vegetation, Wildlife	3	<p>The project will not create problems by introducing nuisance or non-indigenous species of vegetation that may be ecologically disruptive, be invasive, threaten survival of indigenous plant habitats, or disrupt agricultural or silvicultural activities as only native plants will be used.</p> <p>The project will not damage or destroy existing remnant or endemic plant communities, especially those containing nationally, regionally or locally rare species (e.g., prairie grasslands, ice-age disjuncts, local soil-type endemics, etc.) as none exist in the project area.</p> <p>The project will not damage or destroy plant species that are legally protected by state or local ordinances as none exist in the project area.</p> <p>There is a potential that the project will damage or destroy trees in the project area trees exist in the project area. However, any damage is anticipated to be minimal.</p> <p>The project will create special hazards for animal life as ground soil, native grasses and small trees which serve as habitat for some species, may be removed during construction. However, the disturbance is expected to be minimal and most affected animal life should be able to relocate on adjacent properties.</p> <p>The project will not impact migratory birds as their habitat does not exist in the project area.</p>

		<p>The project site does not host species that are monitored or listed by local, state, tribal or the federal government.</p> <p>The project will not damage or destroy existing wildlife habitats (e.g., removal or blockage of wildlife corridors, such as a riparian buffer) as none exist in the project area.</p> <p>The project will not include excessive grading that will alter the groundwater level and thus cause death of trees and ground cover which in turn diminishes animal habitat as no such grading is included in this project.</p> <p>The project will not damage game fish habitat or spawning grounds as none exist in the project area.</p> <p>During construction, storm drainage could be disrupted. However, any disruption is expected to be minimal as drainage controls will be incorporated into the construction contract where needed.</p> <p>The project will not create conditions favorable to the proliferation of pest species as it is anticipated that only native plants/soils will be utilized in the project as native grasses and landscaping will be utilized.</p> <p>The project will not create conditions (e.g., generate excessive noise or introduce pesticide usage) that could harm or harass wildlife species that are nationally, regionally or locally rare or protected by state or local ordinance as none exist in the project area.</p>
Other Factors		None Identified.

Additional Studies Performed: None

List of Sources, Agencies and Persons Consulted:

Sources:

- US Census
- Google Maps
- Aerial Photos
- Onsite Observation
- NPIAS Website
- Map of U.S. Military Bases
- General Land Office Coastal Barrier Map
- NEPA Assist
- Closed and Abandoned Landfills - Regional COG
- TCEQ - CQR
- General Land Office Coastal Zone Map
- USFWS IPAC Report and Official Species List
- TPWD County Species List
- FEMA floodplain map
- HUD Tribal Directory
- EPA Sole Source Aquifer Map
- USFWS Wetland Mapper
- Texas Wild and Scenic and Inventory Maps
- National Seismic Hazard Map

Agencies:

- USFWS - 6/9/22
- Alabama-Coushatta Tribe of Texas - 8/2/22
- Alabama-Qussarte Tribal Town - 8/2/22
- Apache Tribe of Oklahoma - 8/2/22
- Comanche Nation, Oklahoma - 8/2/22
- Coushatta Tribe of Louisiana - 8/2/22
- Tonkawa Tribe of Indians of Oklahoma - 8/2/22
- Wichita and Affiliated Tribes - (Wichita, Keechi, Waco & Tawakonie), Oklahoma - 8/2/22

List of Permits Obtained: None

Public Outreach:

The public was given the following opportunities to comment:

- During FONSI comment period

Cumulative Impact Analysis:

Project Size and Beneficiaries

The total area of disturbance will be 2.6 acres and will impact residents in the immediate project area and along the drainage way both upstream and downstream.

Alternatives

BUILD

1. **Conduct Drainage Work in another Location:** The City evaluated other routes for conveying water including storm sewer pipes through the neighboring subdivision. The City decided to not pursue that option due to potential relative disruption to local residents from acquiring much of their property and digging holes for pipes through their yards. This current project was deemed less invasive and the most cost-effective. (Not Viable)
2. **Other infrastructure considered.** - After considering other potential projects in the City, it was determined that of the eligible projects, this project was of the highest priority. (Not Viable)
3. **No Action or Alternative Actions that Serve the Same Purpose.** - The current drainage system is inadequate for the area and must be addressed to prevent public health hazards. (Not Viable)

BUILD/PROPOSED

4. **Construct the project as proposed.** The City has determined that the project, as proposed, is the best solution to the storm drainage issue as adequate funding is in place and engineering plans and environmental studies are underway. (viable)

No Action Alternative [24 CFR 58.40(e)]:

5. **A no-action alternative was considered.** The drainage system is currently not functioning properly and could pose a health hazard to the community if not addressed. (Not Viable)

The Context

There is little drainage for the local residents and this was evident during Hurricane Harvey when these residents were flooded more than any other area in town. Improving drainage along Ave P will convey water from neighborhoods faster during storms and minimize the risk of houses flooding.

With the aid of federal grant funds, the City has been able to upgrade other infrastructure in the City. In addition, planning studies have been commissioned which will help the City better allocate their funds for such projects.

Cumulative Effects

Using a trends method to analyze the cumulative effects on the resources over time along with consultation with federal, state authorities, the City and the project engineer, the effect or cumulative stresses was determined for the RSA:

- Localized Flooding
 - As a result of the project, during further heavy rain events, resident's homes and local businesses will be less likely to be inundated with stormwater and roadways will be more likely to remain passable.
- Transportation
 - The project will reduce the likelihood of localized flooding which could impede vehicular movement and put human lives in danger and negatively affect commercial businesses.
- Water quality
 - The project will reduce the likelihood of the water supply being contaminated due to a flood.
- Sanitary Sewer
 - The project will reduce the risk of the sewer system becoming overloaded during heavy rains which would cause raw sewage overflows and inadequate sewage treatment.
- Commercial and Residential Growth
 - The project will reduce local flooding in the area which may positively encourage growth in the small growth area.

Summary of Findings and Conclusions:

Resource Study Area

Based on a review of the project description, the relevant resource study area (RSA) is the City and the area along the drainage facilities to be addressed as well as the general drainage basin in which it affects.

Foreseeable Actions

It has been determined that addressing the drainage system in the project area will occur.

Conclusion

An inadequate drainage system is creating a potential health risk to residents and must be addressed.

Multiple alternatives were considered and rejected as not being viable. Mitigation measures will be put into place to minimize potential negative impacts to the environment.

Based on available environmental documents, consultation with the project engineer, and other information collected about these actions, it was determined that there will be no adverse effects to the environment resulting from this project if appropriate mitigation measures are undertaken.

Mitigation Measures and Conditions

Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law, Authority, or Factor	Mitigation Measure
Floodplain Management	<ul style="list-style-type: none">● Preserving Property: Project designs should, to the best extent possible, incorporate measures to reduce the risk of damage to the new infrastructure via a flood.● Preserving Natural Values and Minimizing Impacts: After construction is completed, disturbed area will need to be immediately re-vegetated with native grasses. Only native plants are to be used in the floodplain and on the site.● Deposition and excavation of materials will need to be performed in such a manner that erosion and sedimentation will be controlled.● Precautions will need to be taken in handling of fuels or other hazardous materials to prevent discharge or spillage resulting in lower groundwater quality.● Erosion control measures such as hay bales or silt screen barriers will need to be implemented and maintained during construction as required.● The project engineer will need to incorporate best management practices into the specifications and plans.

The City will assure that this plan, as modified and described above, is executed and necessary language will be included in all agreements with participating parties. The City will also take an active role in monitoring the construction process to ensure no unnecessary impacts occur nor unnecessary risks are taken.

Determination:

Finding of No Significant Impact [24 CFR 58.40(g)(1); 40 CFR 1508.27]
The project will not result in a significant impact on the quality of the human environment.

Finding of Significant Impact [24 CFR 58.40(g)(2); 40 CFR 1508.27]
The project may significantly affect the quality of the human environment.

Preparer Signature:  Date: 9/3/2022

Name/Title/Organization: Todd Cave, Cave Consulting, Inc.

Certifying Officer Signature:  Date: 9/6/2022

Name/Title: Alun Thomas, Acting City Manager