

ANTIQUITIES PERMIT APPLICATION FORM

ARCHEOLOGY

GENERAL INFORMATION

I. PROPERTY TYPE AND LOCATION

Project Name (and/or Site Trinomial) Chimney Rock Road (17202)

County (ies) Fort Bend County, Texas

USGS Quadrangle Name and Number USGS Almeda, Texas, 7.5' Topographic Quadrangles

UTM Coordinates Zone 15 E 259618 N 3273294

Location The project consists of the proposed development of approx. 2.2 miles of new roadway extending across a largely undeveloped coastal wooded area between McHard Road and the current northern terminus of Chimney Rock in Almeda, Fort Bend County, Texas. For purposes of the cultural resources survey, the project area is assumed to consist of a 2.2-mile-long linear right-of-way measuring 150.0 feet in width.

Federal Involvement Yes No

Name of Federal Agency US Army Corps of Engineers, Galveston District

Agency Representative Jerry Androy

II. OWNER (OR CONTROLLING AGENCY)

Owner Fort Bend County

Representative Robert Hebert, County Judge

Address 301 Jackson Street, Suite 400

City/State/Zip Richmond, Texas 77469

Telephone (include area code) (281) 633-7500 Email Address _____

III. PROJECT SPONSOR (IF DIFFERENT FROM OWNER)

Sponsor _____

Representative _____

Address _____

City/State/Zip _____

Telephone (include area code) _____ Email Address _____

PROJECT INFORMATION

I. PRINCIPAL INVESTIGATOR (ARCHEOLOGIST)

Name Jeffrey D. Owens

Affiliation Horizon Environmental Services, Inc.

Address 1507 S. Interstate 35

City/State/Zip Austin, Texas 78741

Telephone (include area code) (512) 328-2430 Email Address jesse_owens@horizon-esi.com

ANTIQUITIES PERMIT APPLICATION FORM (CONTINUED)

II. PROJECT DESCRIPTION

Proposed Starting Date of Fieldwork November 12, 2018
Requested Permit Duration 5 Years 0 Months (1 year minimum)
Scope of Work (Provided an Outline of Proposed Work) Conduct intensive cultural resources inventory and assessment of 2.2-mile-long by 150.0-foot-wide proposed ROW of Chimney Rock Parkway in Almeda, Fort Bend County, Texas. See attached scope of work for details.

III. CURATION & REPORT

Temporary Curatorial or Laboratory Facility Horizon Environmental Services, Inc
Permanent Curatorial Facility Texas Archeological Research Laboratory

IV. LAND OWNER'S CERTIFICATION

I, Robert Hebert, County Judge, Fort Bend County, as legal representative of the Land Owner, do certify that I have reviewed the plans and research design, and that no investigations will be preformed prior to the issuance of a permit by the Texas Historical Commission. Furthermore, I understand that the Owner, Sponsor, and Principal Investigator are responsible for completing the terms of the permit. Signature Date

V. SPONSOR'S CERTIFICATION

I, as legal representative of the Sponsor, do certify that I have reviewed the plans and research design, and that no investigations will be performed prior to the issuance of a permit by the Texas Historical Commission. Furthermore, I understand that the Sponsor, Owner, and Principal Investigator are responsible for completing the terms of this permit. Signature Date

VI. INVESTIGATOR'S CERTIFICATION

I, Jeffrey D. Owens, as Principal Investigator employed by Horizon Environmental Services, Inc. (Investigative Firm), do certify that I will execute this project according to the submitted plans and research design, and will not conduct any work prior to the issuance of a permit by the Texas Historical Commission. Furthermore, I understand that the Principal Investigator (and the Investigative Firm), as well as the Owner and Sponsor, are responsible for completing the terms of this permit. Signature Date

Principal Investigator must attach a research design, a copy of the USGS quadrangle showing project boundaries, and any additional pertinent information. Curriculum vita must be on file with the Division of Antiquities Protection.

FOR OFFICIAL USE ONLY

Reviewer Date Permit Issues
Permit Number Permit Expiration Date
Type of Permit Date Received for Data Entry



Environmental Services, Inc.

November 5, 2018

Mr. Mark Wolfe
State Historic Preservation Officer
Texas Historical Commission
1511 Colorado Street
Austin, Texas 78701

**Re: Texas Antiquities Permit Application
Scope of Work for Cultural Resources Inventory and Assessment
Antiquities Code of Texas and Section 106 of National Historic Preservation Act**

**Proposed Chimney Rock Parkway Project
Almeda, Fort Bend County, Texas**

BOA Project No.: 9909

Dear Mr. Wolfe:

Horizon Environmental Services, Inc. (Horizon) has been selected by Berg-Oliver Associates, Inc. (Berg-Oliver) on behalf of Fort Bend County to conduct a cultural resources inventory survey and assessment for the proposed Chimney Rock Parkway Project in Almeda, Fort Bend County, Texas. The proposed undertaking would involve constructing approximately 2.2 miles of new roadway that would connect the existing northern and southern segments of Chimney Rock Road between McHard Road on the north and Chimney Rock Road on the south. The entire project would consist of construction within proposed new right-of-way (ROW). For purposes of the cultural resources survey, the project area is assumed to consist of 2.2-mile-long linear corridor measuring approximately 150.0 feet in width. Design schematics are not currently available; however, based on typical design practices, though the depth of impacts is assumed to be no more than 5.0 feet below surface across most of the project area, with deeper impacts likely at the locations of bridge supports on either side of Mustang Bayou.

The proposed undertaking would be sponsored by Fort Bend County, a political subdivision of the state of Texas; as such, the project would fall under the jurisdiction of the Antiquities Code of Texas. In addition, the project would require permitting by the US Army Corps of Engineers, Galveston District (USACE), under Section 404 of the Clean Water Act (CWA); as such, the project would also fall under the jurisdiction of Section 106 of the National Historic Preservation Act (NHPA). As the proposed project represents a publicly sponsored undertaking, the project sponsor is required to provide the USACE and the Texas Historical Commission (THC), which serves as the State Historic Preservation Office (SHPO) for the state of Texas, with an opportunity to review and comment on the project's potential to adversely affect historic properties listed on or considered eligible for listing on the National Register of Historic Places (NRHP) and for designation as State Antiquities Landmarks (SAL).

The cultural resources study would consist of desktop archival research, an intensive archeological field survey, and production of a report suitable for review by the State Historic Preservation Office (SHPO) in accordance with the Texas Historical Commission's (THC) Rules of Practice and Procedure, Chapter 26,

Section 27, and the Council of Texas Archeologists' (CTA) Guidelines for Cultural Resources Management Reports.

Prior to initiating fieldwork, Horizon will perform basic archival research at the THC, Texas Archeological Research Laboratory (TARL), the National Park Service's (NPS's) online National Register Information System (NRIS), and/or other relevant archives for information on previous cultural resources investigations conducted in the vicinity of the project area and previously recorded cultural resource sites and historic properties in and near the project area. Horizon will review the abovementioned archives; historic, geological, and soil maps; and aerial surveys and photographs prior to initiating fieldwork to evaluate the potential for encountering significant cultural resources within the project area.

Subsequent to the acquisition of a Texas Antiquities Permit, Horizon proposes to conduct an intensive cultural resources survey of the project area, including pedestrian walkover, surface inspection, subsurface shovel testing, and backhoe trenching, as appropriate. Horizon will conform to the Texas State Minimum Archeological Survey Standards (TSMASS) unless field conditions warrant excavation of more or fewer subsurface probes (i.e., more probes due to the presence of culturally sensitive areas or fewer probes due to extensive prior disturbances or cultural low-probability areas). The TSMASS require a minimum of 16 shovel tests per mile for linear projects per 100.0-foot width of right-of-way. As the project area measures 150.0 feet in width, two survey transects would be required, and minimum of 64 shovel tests would be required. In the event that a subsurface probe yields evidence of subsurface cultural deposits, additional probes may be necessary to determine the horizontal and vertical extent of the subsurface deposits associated with the cultural resource within the designated project area.

The TSMASS also require backhoe trenching in stream terraces and other areas with the potential to contain buried cultural materials at depths below those that shovel tests are capable of reaching (approximately 1.0 meter [3.3 feet] below surface depending on soil type). Based on the physiographic setting of the project area on a broad coastal flat composed primarily of Pleistocene-age fluvio-marine deposits, it is unlikely that backhoe trenching would be required, though it possible that it may be necessary in the event that deep Holocene-age alluvium is present that has the potential to contain deeply buried archeological deposits. Also, in the event that the project area passes within 25.0 feet of the marked boundaries of a cemetery, then mechanical scraping operations may be required to determine whether or not any unmarked graves are present beyond the marked cemetery boundaries within the proposed project area. Mechanical stripping of surface sediments would be performed in an attempt to identify grave shafts associated with unmarked burials, and accompanying backhoe trenching would be required to verify that soils within the project area are natural sediments that are conducive to identifying soil anomalies indicative of grave shafts.

Field notes will be maintained on terrain, vegetation, soils, landforms, survey methods, shovel test results, and any cultural materials observed. Digital photographs will be taken and a photographic log will be maintained. If cultural resource isolated occurrences, historic or prehistoric archeological sites, or historic structures or objects are identified, Horizon personnel will record, sketch, and photodocument any cultural resource sites identified during the survey to a sufficient extent to make preliminary assessments of their eligibility for designation as SALs under the Antiquities Code of Texas and/or for inclusion in the NRHP under the NHPA, as appropriate. The nature and extent of the archeological sites will be evaluated via surface inspection, shovel testing, and/or backhoe trenching, as appropriate, up to the edges of the project area's boundaries, and site boundaries will be delineated up to the edges of the project area. New sites will be recorded on standard *State of Texas Archeological Data Site Forms* and filed with TARL, and

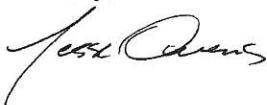
permanent archeological site trinomials will be obtained. *State of Texas Archeological Site Update Forms* will be completed for any previously recorded archeological sites that are re-located and re-investigated during the survey. Any historic structures or objects 50 years of age or older will be recorded and photodocumented.

Horizon will employ a non-collection policy to the maximum extent practicable. Diagnostic artifacts (e.g., projectile points, ceramics, historic-age materials with maker's marks) and non-diagnostic artifacts (e.g., lithic debitage, burned rock, historic glass, and metal scrap) will be described, sketched, and/or photodocumented in the field and replaced in the same location in which they were found. In the event that any cultural materials are collected during the survey, they will be temporarily housed at Horizon's laboratory facilities in Austin, Texas, and processed for analysis. Any artifacts collected from public lands during the survey may need to be curated at an approved curational facility according to guidelines of an approved curation facility, such as TARL. Curation includes standardized preparation and labeling of field notes, photographs, and cultural materials. Arrangements for the dispensation of any cultural materials collected from private land would be negotiated among the client, landowners, and applicable regulatory agencies.

Upon completion of the fieldwork, Horizon will analyze any cultural materials that were collected and develop draft and final technical reports suitable for review by the THC pursuant to the Council of Texas Archeologists' (CTA's) *Guidelines for Cultural Resources Management Reports*. The technical report will detail the project background, environmental and cultural setting of the project area, research goals and survey methods, survey results, and recommendations for any cultural resources documented during the survey. Recommendations for any archeological sites and historic structures identified will be made in reference to their SAL/NRHP eligibility. Horizon will respond to any comments provided by the THC regarding the draft technical report and submit the required number of copies of the final report to fulfill the conditions of the Texas Antiquities Permit. Following acceptance of the final report by the THC, Horizon will prepare project records for permanent curation at an approved curation facility following the guidelines of the approved facility.

Please feel free to contact me at (512) 328-2430 or at jesse_owens@horizon-esi.com if you have any questions or require additional information.

Sincerely,



Jesse Owens
Cultural Resources Director
Horizon Environmental Services, Inc.