



Environmental Assessment
Mapaville FPD Proposed Fire Station
Festus, MO
EMW-2009-FC-00757
April 2010



FEMA

FEMA Region VII
9221 Ward Parkway, Suite 300
Kansas City, MO 64114



ENVIRONMENTAL ASSESSMENT

PROPOSED FIRE STATION EMW-2009-FC-00757 3691 PLASS ROAD FESTUS, MISSOURI

For Submittal to:

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**April 2010
Contract C-10064**

QUALITY ASSURANCE/QUALITY CONTROL

Project: **Environmental Assessment**
 Proposed Fire Station
 3691 Plass Road
 Festus, Missouri

Project No.: **Contract C-10064**

This report has been prepared on behalf of and for the exclusive use of Mapaville Fire Protection District solely for the purpose of documenting the above-titled project. This report and all documents contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without written consent of NPN Environmental Engineers, Inc. and Mapaville Fire Protection District. However, NPN Environmental acknowledges and agrees that the report being submitted to Federal Emergency Management Agency may be conveyed as public information.

As part of NPN Environmental's QA/QC practices and procedures, this report has been reviewed and approved by the following:

Project Manager:

_____ *Ruth C. Mannebach*

QA/QC Manager:

_____ *Kimberly A. Polacek*

It is the professional opinion of David B. Rowe, P.E., a Registered Professional Engineer licensed to practice in the State of Missouri, that good environmental engineering practices were employed on this project.

Name: David B. Rowe, P.E.
Title: Principal

Signature: _____

Date: _____

Missouri Registration Number
E-24039

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LIST OF ACRONYMS AND ABBREVIATIONS

CFR	Code of Federal Regulations
CWA	Clean Water Act
EA	Environmental Assessment
FEMA	Federal Emergency Management Agency
MDNR	Missouri Department of Natural Resources
NEPA	National Environmental Policy Act
NFPA	National Fire Protection Association
NPDES	National Pollutant Discharge Elimination System
SHPO	State Historic Preservation Office
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service

INTRODUCTION

The Mapaville Fire Protection District (FPD) serves a 22-square mile district in central Jefferson County, Missouri. The district has one fire station located centrally within the geographic service area. The small towns and rural areas served by the Mapaville FPD are considered bedroom communities of St. Louis, Missouri and the district has experienced moderate population growth over the last decade.

The existing fire station located at 3701 Mapaville Fire Department Road in Mapaville is proposed for replacement. The original portion of the station was constructed in the 1950s, with four additions constructed through the years. The building has been structurally damaged by foundation settling as well as water intrusion through the concrete block walls. Although repairs are made as needed and the station is functioning, it is a small 3-bay facility with low ceilings, which limits the size and type of fire apparatus that can be housed and does not contain living quarters. Expansion and upgrades to this station house are not possible due to physical site restrictions. Additionally, the building is located on a road that egresses to a county highway near a busy intersection with a state highway. Traffic congestion frequently hinders vehicle egress and increases response times. The lack of 24-hour staffing capacity, inability to house modern apparatus, and traffic congestion has degraded the Mapaville FPD's ability to respond not only locally, but as a mutual aid partner to neighboring communities.

The local community has been supportive of a new fire station for many years and as the limitations of the existing building became obvious, a building committee was formed. This group surveyed the district and recommended a 3-acre parcel located in the central portion of the district. This parcel, acquired by Mapaville FPD in 2009, is building-ready and offers easy access to a major thoroughfare, which will improve response times not only to the local community, but to mutual aid responses as well.

NEPA requires that Federal agencies consider the environmental consequences of proposed actions before deciding to fund an action. The intent of NEPA is to protect, restore, or enhance the environment through well-informed decision making. The Council on Environmental Quality was established under NEPA to implement and oversee Federal policy in this process and implemented the procedural provisions of NEPA codified at 40 CFR 1500-1508. An Environmental Assessment (EA) related to a FEMA program must be prepared according to the requirements of the Stafford Act and 44 CFR Part 10. This EA has been prepared to evaluate the potential effects to the natural and human environment from relocation and construction of a new fire station.

PURPOSE AND NEED

This EA provides information to support the Department of Homeland Security's Assistance to Firefighters Fire Station Construction Grants process. The purpose of the proposed action is to provide funding for construction of a new fire station under the

American Recovery and Reinvestment Act to the Fire Station Construction Grant program.

The Mapaville FPD's proposed fire station is needed to provide effective and timely fire protection and emergency services to an area that has experienced commercial and residential growth. The proposed fire station will replace an existing station that is obsolete in function due to location, age, and configuration and is unsafe and uninhabitable due to water damage and building settlement. Critical flaws of the existing station cannot feasibly be corrected due to physical structure and property constraints. The proposed new station will significantly reduce overall response time to the community as well as enhance the FPD's ability to respond to crises involving critical infrastructure including state and county highways, public schools, the Missouri State School for the Handicapped, and the Pony Bird Home, a residence for severely mentally and physically handicapped newborns through adults.

ALTERNATIVES

NEPA requires the investigation and evaluation of reasonable project alternatives, including impacts to the natural and human environment as part of the planning process. This EA addresses two alternatives, the No Action alternative and the Proposed Action. Prior to selecting and acquiring the property for the Proposed Action, a building committee was formed and surveyed the district, ultimately recommending the Proposed Action site in part due to its immediate availability and attractive terms from the Joachim-Plattin Ambulance District. Based on this opportunity to acquire a highly desirable location as well as limited funding for land acquisition, the Mapaville FPD did not formally consider alternative locations.

No Action Alternative

The No Action alternative would result in no construction of a new fire station and continued reliance on the existing station. This action would leave emergency response times to this area of the community unchanged and likely to increase with future population growth and development. The No Action alternative would result in lower level of overall public safety than the proposed alternative.

Proposed Action

The Proposed Action would result in construction of a new fire station on property currently owned by the Mapaville FPD at 3691 Plass Road in unincorporated Mapaville, Jefferson County, Missouri, as shown on *Figure 1 – Vicinity Map* in *Appendix A – Figures*. The nearest incorporated town is Festus, Missouri, located to the east/southeast. The preliminary building design calls for the Mapaville FPD consists of an approximately 15,200 square foot fire station with 7 vehicle apparatus bays (*Appendix B – Draft Facility Layout*). An equipment and gear storage room and decontamination area will be located in the bay area, and vehicle exhaust will be vented to the outdoors with an NFPA 1500

compliant exhaust extraction system. The living quarters will include a kitchen, day room, restrooms, bunkrooms, meeting/training room, mechanical room, and utility room. During times of disaster or severe weather, the meeting/training room may be used as an Emergency Operations Center or community heating/cooling center. The fire station will be constructed according to the most recently approved requirements and codes developed by the International Code Council and NFPA standards. It will also incorporate "green design" features such as the use of recycled material when available, maximizing the use of daylight rather than mechanical systems in all four seasons, zone control HVA systems, and other elements as recommended by the architect and contractor. All utilities except sewer are currently available to the site and the building will be tied into existing city water and the local electric utility. Domestic sewage will be discharged to an on-site septic system with leach field. All necessary building permits have been obtained.

Photographs of the subject property and adjacent properties taken on March 17, 2010 are included in *Appendix C – Site Photographs*.

AFFECTED ENVIRONMENT AND POTENTIAL IMPACTS

Mapaville is a small, rural, unincorporated community in Jefferson County located in the east-central portion of Missouri. The community (located at the junction of State Highway A and State Highway Z) is located between the towns of Hillsboro and Festus. The Mapaville FPD has a total service area of 22 square miles. Mapaville is not included by the United States Census Bureau as a Census-Designated Place; however, the estimated population within the service area is approximately 7500 people.

The proposed Mapaville fire station will be located on a 3-acre parcel of vacant ground in unincorporated Jefferson County, as shown on *Figure 2 – 2008 Aerial Photograph*. The property, located at the northeast corner of the intersection of Plass Road and Morgan Road, was previously developed with several single-family residences and mobile homes. The parcel is bounded to the north by State Highway A, to the east by a single-family residence, to the south by Plass Road and single-family residences, and to the west by Morgan Road and a single-family residence. The project site is located in an area zoned for single-family residences; however, Jefferson County allows emergency facilities to be located within any zoning classification.

This section discusses the existing environmental conditions at the proposed project site including descriptions of the physical, biological, and socioeconomic resources throughout the general area and the proposed action site. The characterization of existing conditions provides a baseline for assessing the potential environmental impacts from activities associated with the proposed action.

Physical Resources

The elevation of the subject property ranges from approximately 640 feet to 665 feet above mean sea level, as depicted on the *1964 (Photorevised 1982) Festus, MO. USGS 7.5 minute Quadrangle Maps*. The subject site and surrounding properties slope gently to the north. Stormwater flow is routed over land by sheet flow to a surface drainage ditch running along State Highway A north of the property. A copy of this map (*Figure 1*) is included at the end of the text.

Geology and Soils

The general stratigraphy of the subject site is characterized by the Canadian Series of the Ordovician System in the Paleozoic Era. The Canadian Series is composed of the Jefferson City, Cotter, Powell, and Smithville formations.

The Jefferson City formation (ranging in thickness from 125 to 350 feet) is composed principally of light brown-to-brown, medium-to-fine crystalline dolomite and argillaceous dolomite, which may contain lenses of orthoquartzite, conglomerate, and shale locally.

The Cotter formation (ranging in thickness from 200 to 450 feet) is composed of light gray-to-light brown, medium-to-fine crystalline, cherty dolomite containing intercalated beds of green shale and sandstone. The lower section of the formation is composed of echinoderm fragments, the middle section contains oolitic chert and siliceous ooliths, and the upper shaly section is composed of quartz and brown quartzose oolitic chert.

The Powell formation (ranging in thickness from 150 to 175 feet) is composed of medium-to-fine crystalline dolomite with thin beds of green shale and fine-grained sandstone.

The Smithville formation (up to 150 feet thick) is composed of dolomite containing small amounts of chert. One distinguishing characteristic of the Smithville formation is the presence of Bryozoa fossils.

The subject site is composed of Wrengart silt loam (73046). The Wrengart silt loam unit with 3 to 8 percent slopes is located on the summit of hills. The parent material is fine, silty loess over gravelly residuum weathered from limestone. The typical profile for this soil unit consists of 0 to 7 inches silt loam, 7 to 41 inches silty clay loam, and 41 to 80 inches extremely cobbly, silty clay loam. The Wrengart series is very deep, moderately well drained, and moderately/slowly permeable. The Wrengart silt loam is not classified as prime farmland by the USDA.

The proposed action will not significantly impact geology or soils at the site. All construction activity will incorporate practices to minimize soil erosion during the construction phase, including the use of best management practices such as installation of

silt fencing and straw bales and proper staging of construction equipment. Following completion of the construction phase, the site will be landscaped with decorative and cover vegetation, reducing the potential for soil erosion.

Geology and soils will not be impacted by the No Action alternative as no construction activities would occur.

Air Quality

The USEPA is required under the Clean Air Act to set National Ambient Air Quality Standards for pollutants harmful to public health and the environment. Primary standards protective of human health and secondary standards protective of public welfare have been established for ozone (O₃), carbon monoxide (CO), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), lead (Pb), particulate matter with a diameter of 10 microns or less (PM₁₀), and particulate matter with a diameter of 2.5 microns or less (PM_{2.5}).

MDNR operates several air quality monitoring stations for primary air pollutants in Jefferson County. Currently, Jefferson County, Missouri is considered a non-attainment area for ozone and fine particulate matter (PM_{2.5}) and an attainment area for the remaining criteria pollutants listed above.

The proposed action will require short-term construction activities including soil excavation and grading, cutting and filling, and soil placement. Heavy equipment including bulldozers, graders, and backhoes will be used during construction. These activities are likely to create fugitive dust; however, best management practices would be used to minimize dust and construction would be completed within a year. Once construction is complete and the facility is operational, the only anticipated source of air emissions would be from vehicle exhaust. As the proposed project is for construction of a new fire station and does not include acquisition of new or additional vehicles or apparatus, no net increase of emissions over current local levels would occur.

Air quality will not be impacted by the No Action alternative as no construction activities would take place and no air emissions would occur.

Water Resources

The USACE is responsible for administration of functions regarding navigable waters and wetlands of the United States under the Rivers and Harbors Act of 1899 and Section 404 of the CWA.

A site reconnaissance conducted on March 17, 2010 did not observe any natural surface water bodies (rivers, creeks, ponds, or wetlands) on or adjacent to the project location. The Wrengart silt loam present at the property is characterized as a moderately well drained soil and is not classified by the USDA as a hydric soil, one of the three criteria

required for determining the presence of wetlands. Therefore, the site does not contain waters of the United States.

Storm water in the project area drains by surface flow to drainage swales along Plass Road and State Highway A. No evidence of ponding or inadequate drainage was observed during the site reconnaissance.

A former septic lagoon is located on the northeast corner of the subject property but has not received wastewater in years. The lagoon has a primary basin and overflow basin. The overflow basin has an outfall pipe that discharges to the ground on the north side of the property, ultimately draining toward State Highway A.

Water Quality

Disturbance of soils at the project site during construction activity could result in erosion and runoff, which in turn could impact local surface water quality.

To minimize erosion and stormwater runoff during construction, a General NPDES Permit for construction activities (or waiver of the permit) will be required by MDNR. The General NPDES Permit is obtained by submitting a Notice of Intent for coverage to MDNR and developing a Storm Water Pollution Prevention Plan implementing best management practices to reduce or eliminate runoff impacts during construction. A Land Disturbance Permit must also be obtained from Jefferson County. The Mapaville FPD will complete these activities during the engineering and design phase of the construction project.

During construction of the proposed action, best management practices will be utilized to minimize water quality impacts from site activities. Following construction, the site will be landscaped and vegetated to reduce the potential for soil erosion. The proposed action will have no significant impacts on water quality of waters of the United States and no Section 404 permitting will be required.

Water quality will not be impacted by the No Action alternative as no construction activities would take place.

Wetlands

Lands subject to regulation as wetlands under Section 404 of the CWA (jurisdictional wetlands) are defined as: "Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions." Typically, lands that exhibit characteristics of hydrology, support predominantly hydrophytic vegetation, and have a substrate that is predominantly undrained hydric soil are classified as jurisdictional wetlands. The USACE is responsible for administration of Section 404 and the issuance of permits for disturbance of wetlands,

including discharge of dredged and fill material. Under Executive Order 11990, Protection of Wetlands, Federal agencies are required to take action to minimize the destruction or modification of wetlands.

The project site is located on Wrengart silt loam, which is characterized as a moderately well drained, non-hydric soil. A wetlands map for the subject property prepared by the USFWS on-line map service was reviewed (*Appendix D – Additional Documentation*). No designated wetlands were identified on or adjacent to the subject property. In addition, no areas containing wetland characteristics were observed on or adjacent to the subject property during the site investigation; therefore, the proposed action would have no impacts to wetlands.

Wetlands will not be impacted by the No Action alternative as no construction activities would take place.

Floodplains

Floodplains provide numerous beneficial environmental functions including flood abatement, stream flow mediation, filtering, and water quality enhancement. Federal agencies are required to minimize the occupancy and modification of floodplains under Executive Order 11988, Floodplain Management. Under this order, construction within the 100-year floodplain (500-year floodplain for critical facilities) is prohibited from receiving Federal funding unless there are no practical alternatives.

According to FEMA Flood Insurance Rate Map Community Panel 29099C0355E, the project site is located in an area classified as Zone X, outside defined floodplains (*Appendix D*). As such, the proposed action would not have an impact on floodplains.

Under the No Action alternative, construction activities would not take place and there would be no potential impacts to wetlands.

Biological Resources

Under the Endangered Species Act of 1973, Federal agencies must review proposed actions to ensure they are not likely to jeopardize the continued existence of a listed species or to destroy or adversely modify its critical habitat.

Threatened/Endangered Species and Critical Habitat

The USFWS lists the following seven species in Jefferson County, Missouri:

- Gray bat (endangered) – caves
- Indiana bat (endangered) – caves/mines, small stream corridors with well developed riparian woods, upland forests
- Pallid sturgeon (endangered) – Mississippi and Missouri Rivers

- Pink mucket (endangered) – rivers
- Scaleshell (endangered) – Meramec, Big, and Bourbeuse Rivers
- Sheepnose (candidate) – Meramec River
- Spectaclecase (candidate) – Mississippi River

A Heritage Review Report of Federal and State listed species and critical habitats was requested from the Missouri Department of Conservation Policy Coordination Unit. The Heritage Review Report indicated no wildlife preserves, no designated wilderness areas or critical habitats, and no Federal or State endangered list species are located within one mile of the site or within five miles downstream on streams draining the project site.

The USFWS was also contacted for review of the proposed action. The USFWS reviewed the proposed action and determined that no Federally listed species, candidate species, or designated critical habitat occurs within the project area. Furthermore, the USFWS determined the proposed action will have negligible impacts on wetlands, migratory birds, and other priority fish and wildlife resources. Agency correspondence is included in *Appendix E – Agency Consultation Correspondence*.

Based on agency correspondence, construction of the proposed action will have no adverse affect on Federal or state-listed threatened or endangered species or critical habitat.

Under the No Action alternative, construction activities would not take place and there would be no potential impacts to biological resources.

Wildlife and Fish

The project site is a 3-acre upland lot located between State Highway A and Plass Road. State Highway A borders the site to the north and single-family residences border the site to the east, south, and west. The project site was formerly residential but has since been cleared and graded. Much of the property is bare soil, with herbaceous ground cover and scrub/shrub around the perimeter. No habitats conducive to wildlife are present at the site and any wildlife using or crossing the property would be transitory in nature. There are no natural surface water bodies present on the site. A small, former sewage lagoon located on the northeast corner has not been used in years and is not capable of supporting fish. Thus, the proposed action will have no adverse affect on wildlife or fish.

Under the No Action alternative, construction activities would not take place and there would be no potential impacts to wildlife or fish.

Cultural Resources

Under Section 106 of the National Historic Preservation Act, Federal agencies must consider the potential effects of their actions on historical properties and cultural resources and consult with the MDNR SHPO to resolve any effects.

Historic Properties

NPN Environmental submitted a Section 106 Project Information Form to the MDNR SHPO to initiate review of the proposed action. In a Cultural Resource Assessment dated March 31, 2010, Mr. Mark Miles (Deputy State Historic Preservation Officer) determined that adequate documentation has been provided and there will be "no historic properties affected" by the current project. Agency correspondence is included in *Appendix D*.

Based on the MDNR SHPO review, the proposed action will have no adverse effect on cultural or historic resources. Should any evidence of cultural resources (artifacts or human remains) be discovered during construction activities, work would cease and the MDNR SHPO would be notified.

Historic properties will not be impacted by the No Action alternative as no construction activities would take place.

American Indian Cultural/Religious Sites

The State of Missouri does not have a separate Tribal Historic Preservation Officer authorized by the National Park Service. Review of American Indian cultural and religious sites in Missouri is under the purview of the MDNR SHPO.

Based on the MDNR SHPO review, the proposed action will have no adverse effect on cultural or historic resources. Should any evidence of cultural resources (artifacts or human remains) be discovered during construction activities, work would cease and the MDNR SHPO would be notified.

Historic properties will not be impacted by the No Action alternative as no construction activities would take place.

Socioeconomic Resources

Mapaville is not a Census-Designated Place; therefore, population estimates were obtained for Jefferson County and assumed to be representative of the Mapaville FPD service area. The 2000 census indicates the population of Jefferson County consisted of 97.48% white, 0.08% African American, 0.29% Native American, 0.36% Asian, 0.25% other race, and 0.93% from two or more races. Hispanic or Latino of any race was 1.01% of the population. The median income for a household in the county was \$60,636 and the median income for a family was \$66,697. About 4.9% of families and 6.8% of the population were below the poverty line, including 8.1% of those under age 18 and 6.3% of those aged 65 or over.

Environmental Justice

Executive Order 12898 requires that Federal agencies focus on achieving environmental justice by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations in the United States.

Based on discussions with the Mapaville FPD, the proposed action will result in significant upgrades to and enhancement of the district's ability to respond quickly and effectively to all residents and establishments within the district's service area, as well as providing mutual aid to neighboring districts. As such, the proposed action will have no adverse effect on environmental justice.

Under the No Action alternative, construction activities would not take place, eliminating the potential for positive socioeconomic benefits to the community.

Noise

The Noise Control Act (NCA) of 1972 provides federal regulation of noise, which is defined as undesirable sound. The NCA gives the USEPA authority to establish guidelines for acceptable ambient noise levels. Under USEPA guidelines, outdoor sound levels in excess of 55 decibels (dB) are considered "normally unacceptable" for noise-sensitive land uses such as residences, schools, and hospitals.

The project site is located on Plass Road in an area zoned for residential development and is bordered by single-family residences to the east, south, and west. Temporary short-term impacts due to noise are anticipated during the construction period. To reduce noise levels during this period, construction activities will take place during normal daylight business hours.

The proposed action will introduce long-term operational impacts to adjacent residences. Fire equipment and station alarms during an emergency can range from approximately 95 to 120 dB. This intermittent elevated noise would be above acceptable levels but would only be sustained for extremely short durations. This impact cannot be mitigated due to NFPA 1901 and State Fire Marshal requirements for minimum sound-warning requirements for fire equipment when responding to an emergency.

Under the No Action alternative, short-term construction activities and long-term use of alarms would not take place and noise impacts would not occur.

Traffic

The proposed action is located in an area along Plass Road zoned for residential development. Development of the project site with the new fire station is compatible with this zoning classification. Mr. Chris Ehler (Project Engineer) indicated the Jefferson

County Department of Public Works Highway Division's 2005 average annual daily traffic volume near this stretch of Plass Road is 1676 vehicles.

The new fire station will be located at 3691 Plass Road and would not adversely affect average daily traffic volume on adjacent roads or general area traffic and circulation. The new fire station would result in short-term, intermittent effects to traffic on Plass Road during fire response actions. The Jefferson County Highway Division was contacted regarding county requirements for emergency vehicle access. Mr. Darrell Revelle (Supervisor of Programs) indicated the County has no rules or regulations for warning signage. However, standard practice is for the Highway Division to post "Fire Station Entrance" warning signs 300 feet from the fire station driveway. Based on low traffic volumes and excellent visibility conditions in the vicinity of the proposed fire station, no other warning devices or traffic signals would be warranted.

Under the No Action alternative, no impacts to traffic flow would occur.

Public Service and Utilities

The project site is located along Plass Road in an area zoned for single-family residential development. All utilities except sewer run along Plass Road and are available to the site. A limited amount of trenching and installation of underground lines and connections to the utilities will be required. The proposed action will place an additional, limited demand on utilities in the area; however, the utility infrastructure has been designed to accommodate the planned development of the area. A septic system and leach field will be installed on the northwest corner of the proposed project site to accommodate domestic wastewater. This system will replace the sewage lagoon used by prior residential development at the site.

The No Action alternative would result in no construction activities and would not impact local utilities.

Cumulative Impacts

Cumulative impacts represent the impact on either the natural or human environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions.

The proposed alternative would occur on a project site located in an area zoned for and developed with single-family residences. Construction of the new fire station represents the replacement of an existing, obsolete fire station and would not introduce an additional facility to the area that would potentially result in an increase in cumulative impacts. The new fire station design will incorporate "green building" features that meet stringent environmental standards and energy efficiencies that will lower the overall impact of the new building on the environment.

Under the No Action alternative, no new construction would occur and there would be no net increase in cumulative impacts to the Mapaville area.

SUMMARY OF IMPACTS

Table 1 – Summary of Affected Environments and Impacts summarizes the potential impacts of the proposed project and, where appropriate, mitigation measures to minimize the impacts. Further discussion of the affected environment is provided in sections following the table.

Table 1 – Summary of Affected Environments and Impacts

Affected Environment	Impacts from Proposed Action	Mitigation
Geology and Soils	Disturbance of shallow soils during construction activities	Implement stormwater best management practices during construction to minimize erosion; landscape after construction to prevent erosion
Air Quality	Minor and temporary impacts from construction vehicle exhaust and fugitive dust during construction activities	Air pollution will be minimized through proper equipment maintenance and dust suppression techniques.
Water Quality	Minor and temporary impacts from soil disturbance (erosion and runoff) during construction activities	Obtain general permit from MDNR for land disturbing activities and Land Disturbance Permit from Jefferson County, implement stormwater best management practices during construction to minimize erosion, and landscape after construction to prevent erosion
Wetlands	The proposed action would not impact waters of the United States or wetlands.	Not applicable
Floodplains	The proposed action is not located in a floodplain.	Not applicable
Threatened/Endangered Species	No threatened or endangered species or critical habitats are located near the proposed action.	Not applicable
Wildlife and Fish	No critical habitats or surface water bodies are located near the proposed action.	Not applicable

Table 1 – Summary of Affected Environments and Impacts (cont.)

Affected Environment	Impacts from Proposed Action	Mitigation
Cultural Resources	Coordination with SHPO concluded there will be no historic properties affected by the proposed action.	Not applicable
Environmental Justice	The proposed action would benefit all citizens equally.	Not applicable
Noise	Short-term construction noise impacts and intermittent long-term impact from emergency equipment sirens	Construction activities will be restricted to normal daylight hours and equipment properly maintained. Mitigation not possible for emergency equipment sirens.
Traffic	Intermittent increase of emergency vehicles on Plass Road	Fire Station Entrance warning signs will be installed by Jefferson County Highway Division.
Public Service and Utilities	The proposed action will not place significant demands on in place utility infrastructure.	Not applicable
Cumulative Impacts	The new fire station will be constructed on commercially zoned property and will incorporate energy efficient design.	Not applicable

PUBLIC INVOLVEMENT

The availability of this EA will be advertised by public notice in the Jefferson County Journal newspaper. Copies of the EA will be placed at the Mapaville FPD's main office at 3701 Mapaville Fire Department Road in Mapaville and the Festus Public Library at 400 West Main Street, Festus, Missouri. The public comment period will extend for a period of 30 days. The EA can also be viewed and downloaded from FEMA's website at <http://www.fema.gov/plan/ehp/envdocuments/index.shtm>. If no substantive comments are received, the EA will become final and the initial public notice will also serve as the final public notice. The EA will then be archived on FEMA's website at <http://www.fema.gov/plan/ehp/envdocuments/archives-index.shtm>.

MITIGATION MEASURES AND PERMITS

Construction of the new fire station will be completed in general accordance with the following mitigation measures to lessen impacts to the local community.

During construction, the applicant will water down construction areas as necessary to prevent fugitive dust emissions that would impact local air quality. Additionally, construction equipment will be operated with factory-equipped vehicle emissions controls.

Prior to construction, a General NPDES Permit for construction activities (or waiver of the permit) will be required by MDNR. Submittal of a Notice of Intent for coverage under the general permit and development of a Storm Water Pollution Prevention Plan implementing best management practices to reduce or eliminate runoff impacts during construction will be completed during the engineering and design phase of the construction project. A Land Disturbance Permit will be obtained from Jefferson County. Following construction, the site will be landscaped and vegetated to reduce the potential for soil erosion.

Construction noise will be temporary and will be mitigated by limiting construction to normal daylight hours. Construction equipment will be operated with factory-equipped vehicle emissions controls including mufflers.

Other permits required for the proposed project site will include building, electrical, plumbing, and mechanical permits issued by Jefferson County, Missouri.

AGENCY COORDINATION AND REFERENCES

Federal Emergency Management Agency
Flood Insurance Rate Map Online Mapping Service
<http://msc.fema.gov/>

Jefferson County, MO
Online GIS Mapping Service
<http://www.jeffcomo.org/>

Mr. Chris Ehlen, Project Engineer
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Mr. Darrell Revelle, Supervisor of Programs
Jefferson County Department of Public Works
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Chief Darryl Reed
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636-937-6302

Policy Coordination Section
Missouri Department of Conservation
PO Box 180
Jefferson City, MO 65102-0180
Heritage Review Report

Missouri Department of Natural Resources
State Historic Preservation Office
Section 106 Review
PO Box 176
Jefferson City, MO 65102-0176
Cultural Resource Assessment, Section 106 Review

Missouri Geological Survey
Geologic Map of Missouri
2003

Ms. Tina Zimmerman, Consultant
TMZ Marketing Services
15519 Easy Ridge Court
St. Louis, MO 63017
636-532-1969

United States Census Bureau
<http://www.census.gov>

United States Department of Agriculture
Soil Conservation Service
Soil Survey of Jefferson County, Missouri
2004

United States Department of the Interior Geological Survey
Topographic Maps
Festus, MO. USGS 7.5 minute Quadrangle
1964 (Photorevised 1982)

United States Department of the Interior Geological Survey
2008 Aerial Photograph

Mr. Charles Scott
United States Department of the Interior
Fish and Wildlife Service
Columbia Ecological Services Office
101 Park DeVille Drive, Suite A
Columbia, MO 65203

United States Department of the Interior
Fish and Wildlife Service
National Wetlands Inventory Online Mapper
<http://wetlandsfws.er.usgs.gov/wtlnds/launch.html>

United States Department of the Interior
Fish and Wildlife Service
State and County Distribution Lists
http://www.fws.gov/midwest/endangered/lists/cty_indx.html#missouri

LIST OF PREPARERS

Those responsible for preparation of this document include:

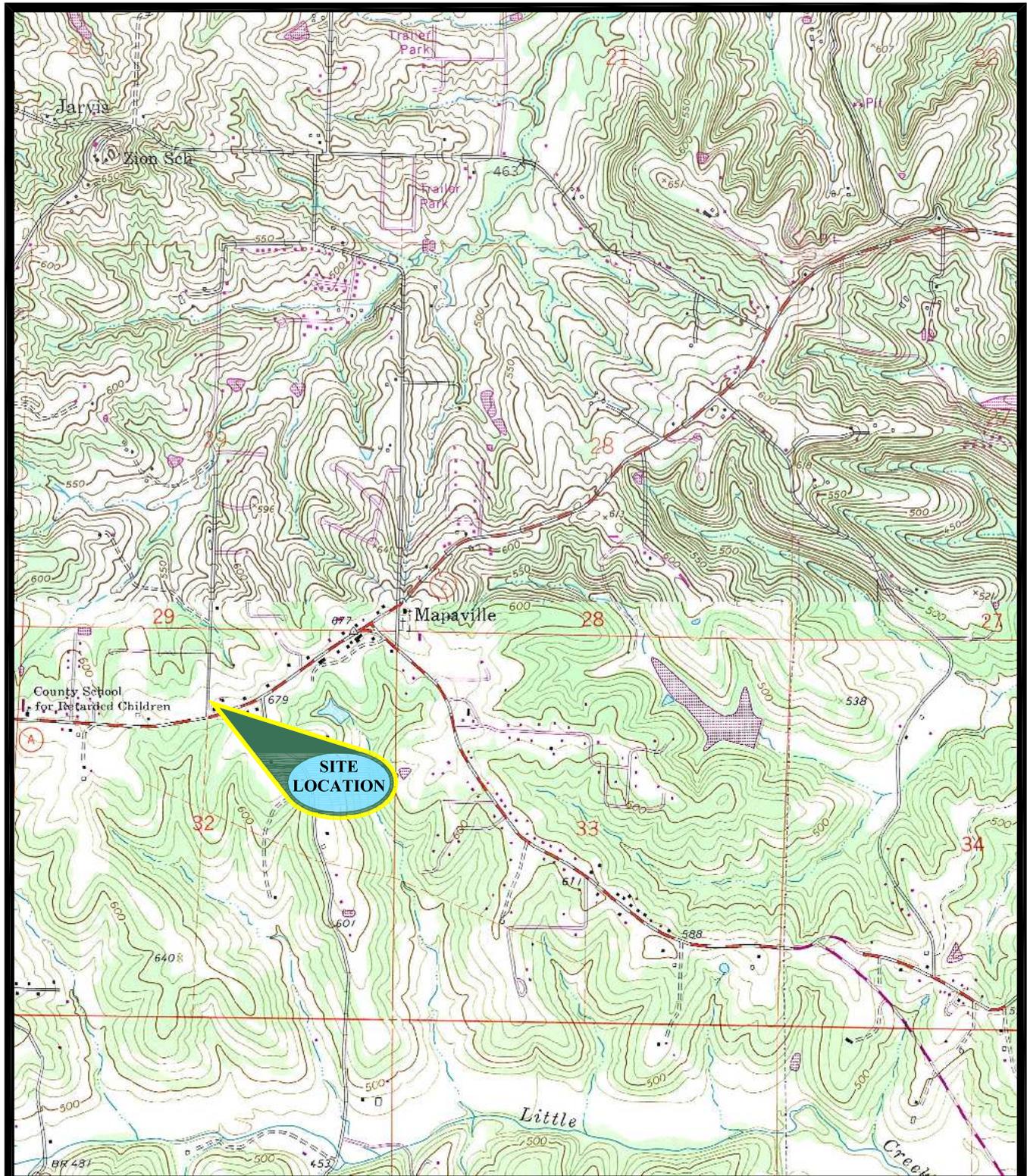
Ruth C. Mannebach, Senior Environmental Scientist
NPN Environmental Engineers, Inc.

Darryl Reed, Chief
Mapaville Fire Protection District

Ruth C. Mannebach was the principal preparer of this document, in consultation with Mr. Darryl Reed as well as the other individuals and agencies identified in this document.

APPENDIX A

Figures



*Adapted from Festus, MO.
USGS 7.5 minute Quadrangle Map
1964 (Photorevised 1982)*

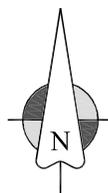
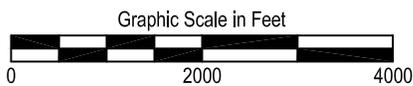
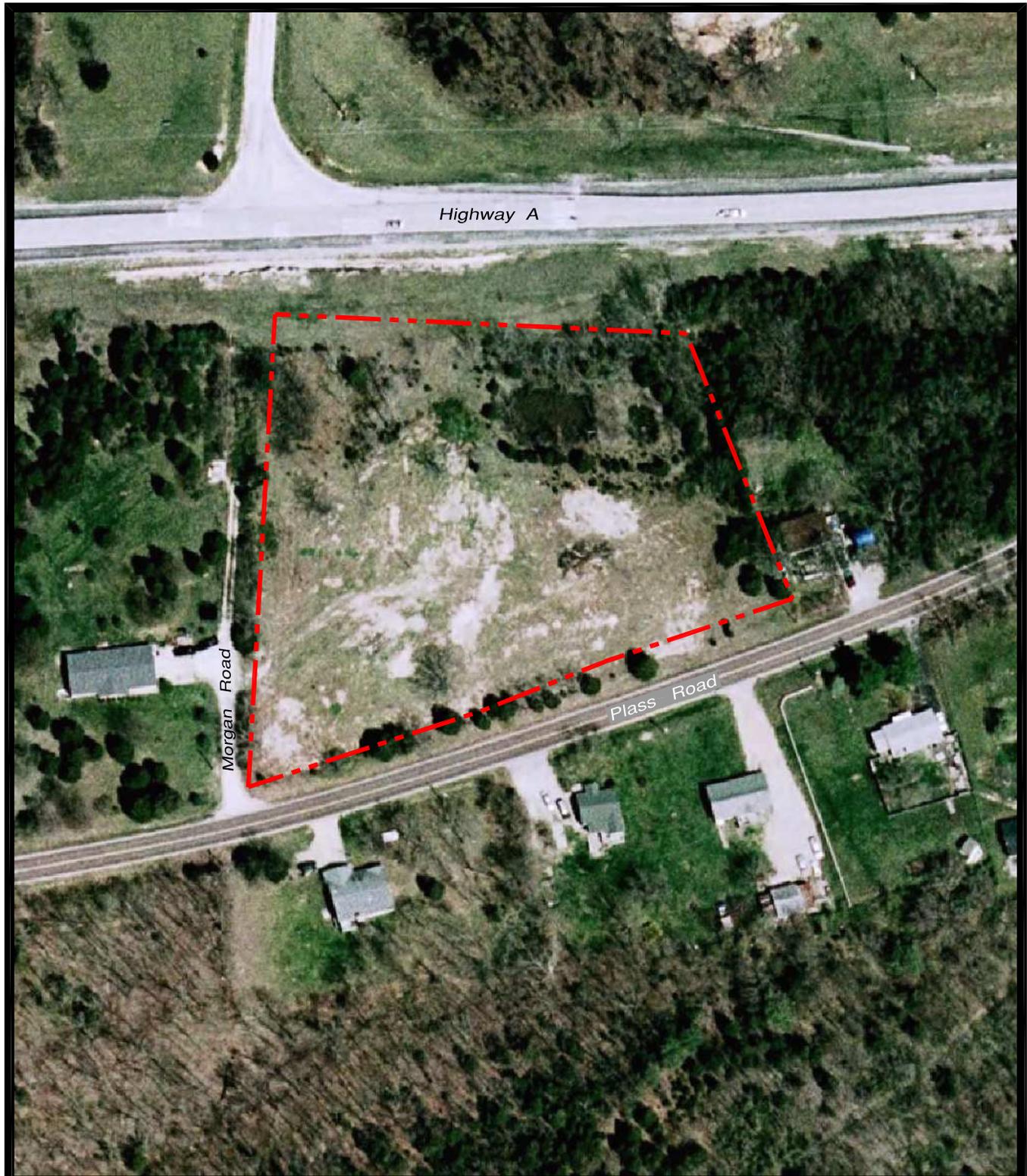


FIGURE 1
Vicinity Map

3691 Plass Road - Festus, MO

Project No. C-10064	Date April 2010	Scale AS SHOWN	Drawn By: SRR	Checked By:
------------------------	--------------------	-------------------	------------------	-------------



*Adapted from USGS
(United States Geological Survey)
2008 Aerial Photograph*

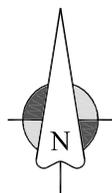


FIGURE 2
2008 Aerial Photograph

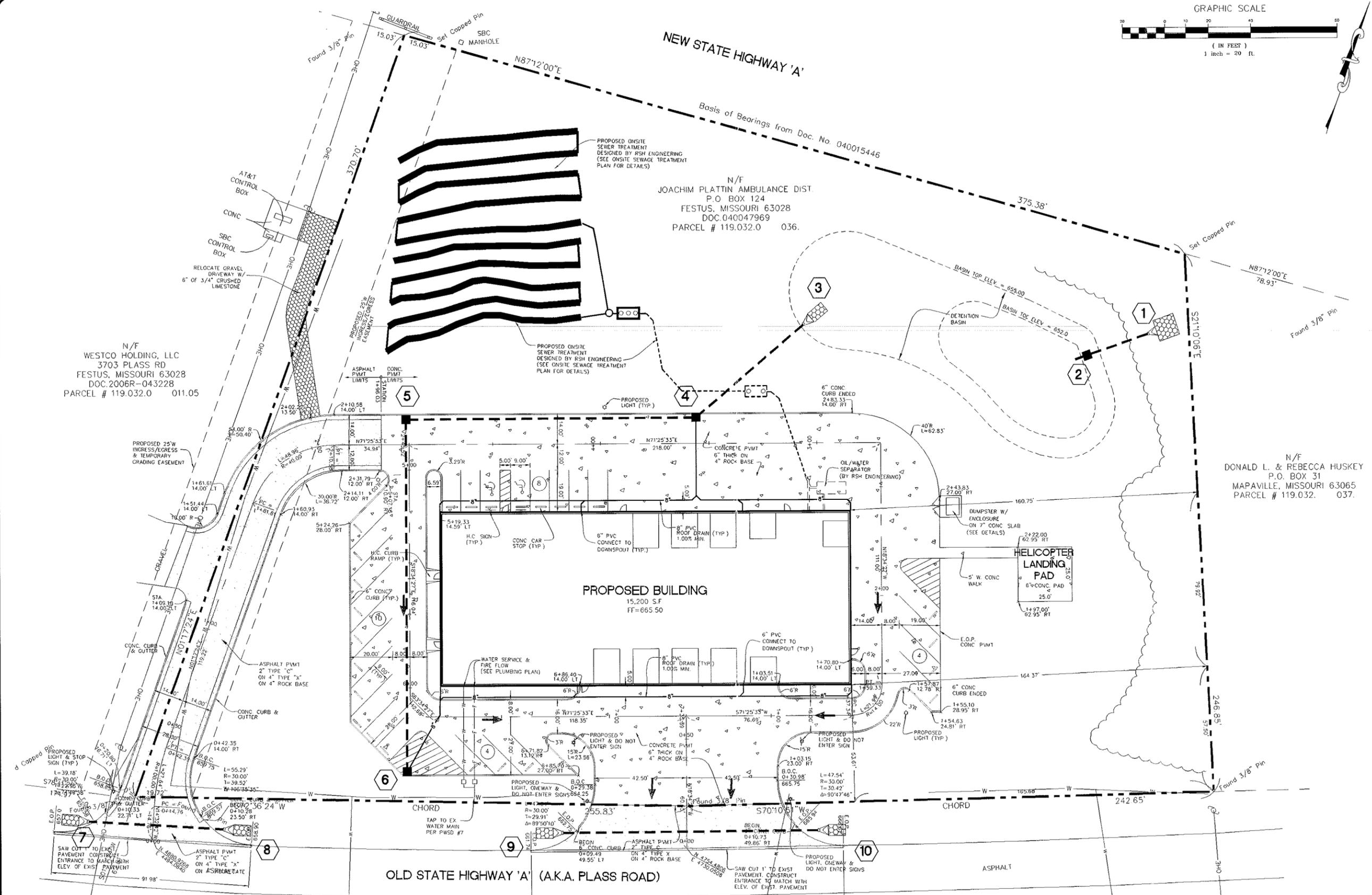
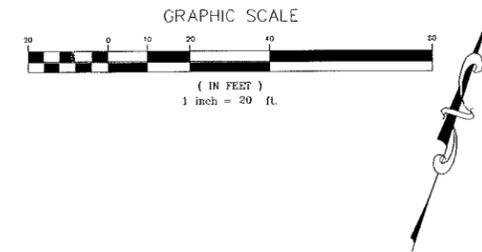
3691 Plass Road - Festus, MO

Project No. C-10064	Date April 2010	Scale NONE	Drawn By: SRR	Checked By:
------------------------	--------------------	---------------	------------------	-------------

APPENDIX B

Draft Facility Layout

Drawing name: \\Server\company\Engineering\Projects\31078E.dwg\CONSTRUCTION DOCUMENTS\31078E-C3.dwg Plotted on: Dec 01, 2009 - 10:24am Plotted by: BrianF



THE UTILITIES SHOWN HEREIN WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, OR LOCATION OF THESE OR OTHER UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UTILITIES, SHOWN OR NOT SHOWN, AND SAID UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo

SITE PLAN

Revisions	
Date	11/17/09
Developer	JOACHIM PLATTIN AMBULANCE DISTRICT 619 COLLINS DRIVE P.O. BOX 124 FESTUS, MISSOURI 63028 PHONE: 636-937-2224 FAX: 636-937-2225
Seal	
Civil Engineer / Surveyor	
Surveyors & Engineers, Inc.	10250 HIGHWAY 21 P.O. BOX 302 PIA, MO 63450 TEL: 636-937-5018 FAX: 636-937-5018 www.associatedland.com GENERAL E-MAIL: info@associatedland.com
Issue Date	08-04-09
Scale	1" = 20'
Job Number	31078E
Sheet Number	C3

APPENDIX C

Site Photographs

Photo No: 1	Date: 3-17-10
Viewing Angle: North	
Description: Project site (cleared, partially graded lot)	



Photo No: 2	Date: 3-17-10
Viewing Angle: East	
Description: Project site (cleared, partially graded lot) with Morgan Road in foreground	



Photo No: 3	Date: 3-17-10
Viewing Angle: South	
Description: Project site (cleared, partially graded lot)	



Photo No: 4	Date: 3-17-10
Viewing Angle: West	
Description: Project site (cleared, partially graded lot) with sewage lagoon visible to the right	



Photo No: 5	Date: 3-17-10
Viewing Angle: North	
Description: Highway A, undeveloped property, and single-family residence adjacent to north of subject site	



Photo No: 6	Date: 3-17-10
Viewing Angle: Northeast	
Description: Single-family residence adjacent to east of subject site (from Plass Road)	



Photo No: 7	Date: 3-17-10
Viewing Angle: Southwest	
Description: Plass Road and single-family residences adjacent to south of subject site	

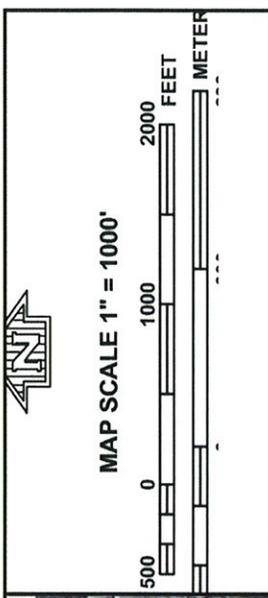


Photo No: 8	Date: 3-17-10
Viewing Angle: Northwest	
Description: Morgan Road and single-family residence adjacent to west of subject site	



APPENDIX D

Additional Documentation



NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0355E

FIRM
FLOOD INSURANCE RATE MAP
JEFFERSON COUNTY,
MISSOURI
AND INCORPORATED AREAS

PANEL 355 OF 500

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
 NUMBER PANEL SUFFIX
 JEFFERSON COUNTY 290808 0355 E

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



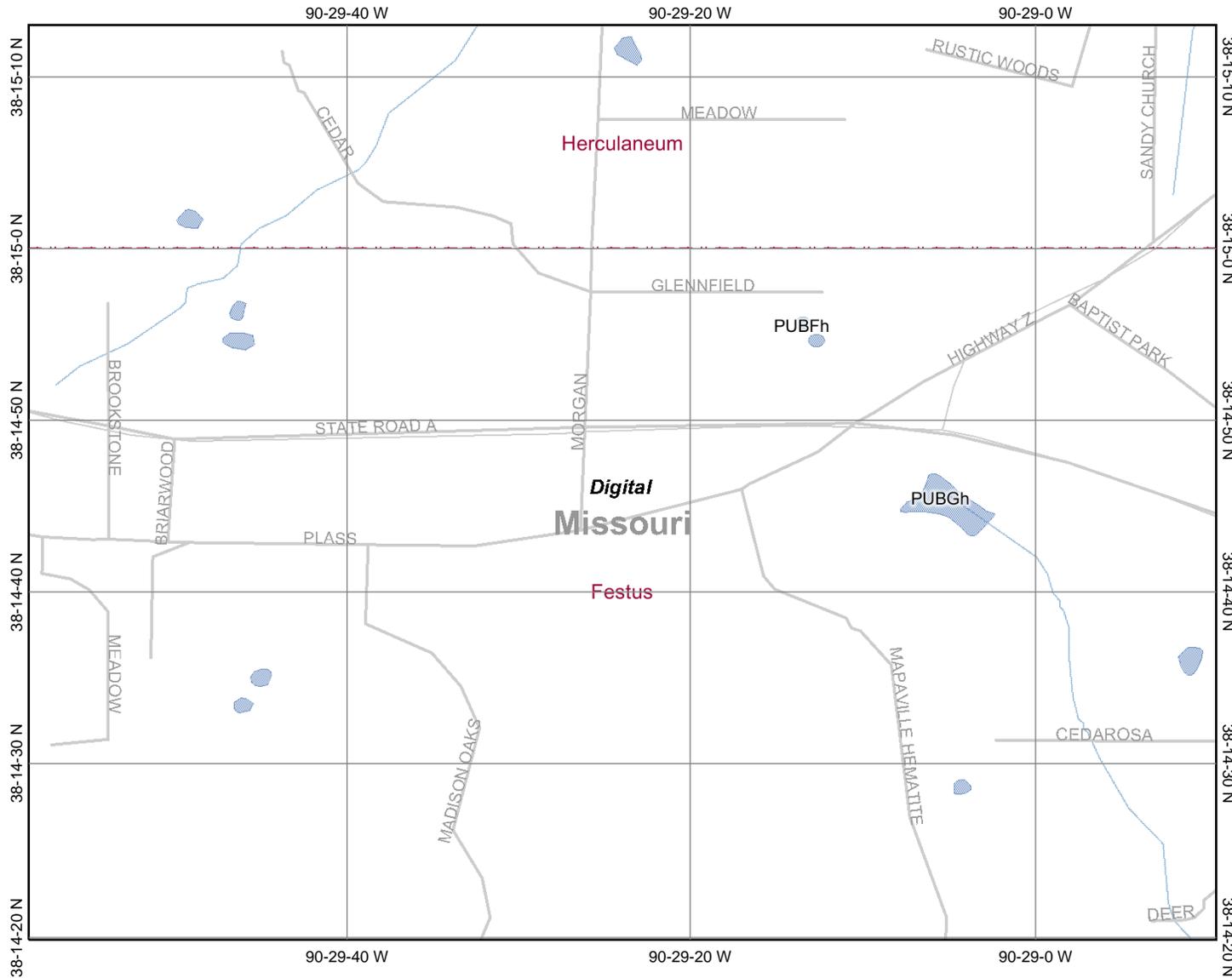
MAP NUMBER
 29099C0355E
 EFFECTIVE DATE
 APRIL 5, 2006

Federal Emergency Management Agency



This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

3691 Plass Road, Festus, MO



Legend

Ohio_wet_scan

- 0
- 1
- Out of range
- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons**
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data**
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America



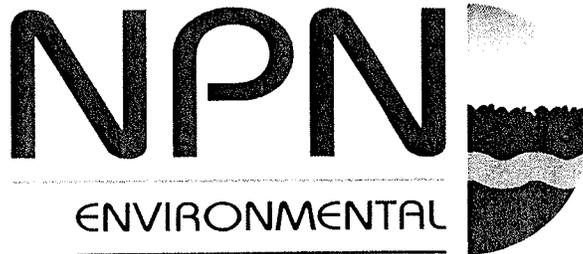
Scale: 1:11,485

Map center: 38° 14' 46" N, 90° 29' 24" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

APPENDIX E

Agency Consultation Correspondence



FILE COPY

March 19, 2010
Contract C-10064

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Policy Coordination Section
Missouri Department of Conservation
P.O. Box 180
Jefferson City, MO 65102-0180

RE: Request for Information
3691 Plass Road
Festus, MO 63028
Latitude 38.2462, Longitude -90.4899

Mapaville Fire Protection District has retained NPN Environmental to prepare an Environmental Assessment in accordance with the Federal Emergency Management Agency (FEMA) regulations at 44 CFR Part 10 and Council on Environmental Quality Regulations at 40 CFT Part 1500-1508. As part of the Environmental Assessment for the above-referenced site, the following information is requested:

- Rare, threatened, or endangered species on or within one-half mile radius of site
- Commercially or recreationally important flora or fauna on or within one-half mile radius of site
- Wilderness, natural areas, critical habitat, preserves and forests, wildlife refuges, terrestrial breeding areas, and wildlife or game management areas on or within one-half mile radius of the site

The 3-acre project site is currently a vacant and undeveloped, formerly residential site as shown on *Figure 1 – Vicinity Map* and *Figure 2 – 2008 Aerial Photograph*. The Mapaville Fire Protection District proposes to construct a new fire station and associated paved parking and driveways on the project site.

Missouri Department of Conservation
March 19, 2010
Page 2 of 2

Thank you for your prompt consideration of our request. If you have any questions or require additional information, please contact me at 636-343-1300.

Sincerely,



Ruth C. Mannebach
Senior Environmental Scientist

Enclosures Figure 1 – Vicinity Map
 Figure 2 – 2008 Aerial Photograph



Missouri Department of Conservation Heritage Review Report

March 25, 2010 -- Page 1 of 2

Policy Coordination Unit
P. O. Box 180
Jefferson City, MO 65102
heritage.review@mdc.mo.gov
573-522-4115 X 3367

Ms. Ruth C. Mannebach
Senior Environmental Scientist
NPN Environmental
1631 Headland Drive
St. Louis, MO 63026

Project type: Building on vacant and undeveloped residential site
Location/Scope: Latitude 38.2462, Longitude -90.4899
County: Jefferson
Query reference: Fire Station Construction – 3691 Plass Road, Festus, Missouri
Query received: March 22, 2010

This NATURAL HERITAGE REVIEW is not a site clearance letter. Rather, it identifies public lands and sensitive resources known to have been located close to and/or potentially affected by the proposed project. On-site verification is the responsibility of the project. Heritage records were identified at some date and location. This report considers records near but not necessarily at the project site. Animals move and, over time, so do plant communities. To say "there is a record" does not mean the species/habitat is still there. To say that "there is no record" does not mean a protected species will not be encountered. These records only provide one reference and other information (e.g. wetland or soils maps, on-site inspections or surveys) should be considered. Look for additional information about the biological and habitat needs of records listed in order to avoid or minimize impacts. More information may be found at www.mdc.mo.gov/nathis/undangered/ and www.mdc.mo.gov/applications/mofwis/mofwis_search1.aspx. Contact information for the department's Natural History Biologist is online at <http://www.mdc.mo.gov/nathis/contacts/>.


3-25-2010
Prepared by: Shannon Cave

Level 3 (federal-listed) and Level 2 (state listed) issues: Records of listed species or critical habitats:

Heritage records identify no wildlife preserves, no designated wilderness areas or critical habitats, no state or federal endangered-list species records within one mile of the site, or in the public land survey section listed above, or within five miles downstream on streams draining the project site.

The project should be managed to minimize erosion and sedimentation/runoff to nearby streams and lakes, including adherence to any "Clean Water Permit" conditions. Revegetate areas in which the natural cover is disturbed to minimize erosion using native plant species compatible with the local landscape and wildlife needs. Pollutants, including sediment, can have significant impacts far downstream. Use silt fences and/or vegetative filter strips to buffer streams and drainages, and monitor those after rain events and until a well-rooted ground cover is reestablished.

FEDERAL LIST species/habitats are protected under the Federal Endangered Species Act. Consult with U.S. Fish and Wildlife Service, 101 Park Deville Drive Suite A, Columbia, Missouri 65203-0007; 573-234-2132

General recommendations related to this project or site, or based on information about the historic range of species (unrelated to any specific heritage records):

- This county has known karst geologic features (e.g. caves, springs, and sinkholes, all characterized by subterranean water movement). Few karst features are recorded in heritage records, and ones not noted here may be encountered at the project site or affected by the project. Cave fauna (many of which are species of conservation concern) are influenced by changes to water quality, so check your project site for any karst features and make every effort to protect groundwater in the project area. See http://mdc.mo.gov/nathis/caves/manag_construc.htm for best management information.
- Streams in the area should be protected from soil erosion, water pollution and in-stream activities that modify or diminish aquatic

habitats. Best management recommendations relating to streams and rivers may be found at <http://mdc.mo.gov/79>.

- Invasive exotic species are a significant issue for fish, wildlife and agriculture in Missouri. Seeds, eggs, and larvae may be moved to new sites on boats or construction equipment, so inspect and clean equipment thoroughly before moving between project sites.
 - ◆ Remove any mud, soil, trash, plants or animals from equipment before leaving any water body or work area.
 - ◆ Drain water from boats and machinery that has operated in water, checking motor cavities, live-well, bilge and transom wells, tracks, buckets, and any other water reservoirs.
 - ◆ When possible, wash and rinse equipment thoroughly with hard spray or HOT water ($\geq 104^{\circ}$ F, typically available at do-it-yourself carwash sites), and dry in the hot sun before using again.

These recommendations are ones project managers might prudently consider based on a general understanding of species needs and landscape conditions. Heritage records largely reflect only sites visited by specialists in the last 30 years. This means that many privately owned tracts could host unknown remnants of species once but no longer common.

Pre-screen heritage review requests at <http://tinyurl.com/heritagereview>. A "Level 1 response" will make further submission to MDC or USFWS unnecessary.





MAR 22 2010

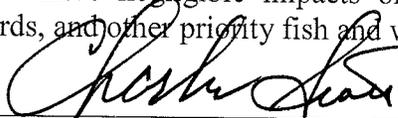
March 19, 2010
Contract C-10064

**VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

Mr. Charles Scott
U.S. Fish and Wildlife Service
Columbia Ecological Services Office
101 Park DeVille Drive, Suite A
Columbia, MO 65203

“The U.S. Fish and Wildlife Service (Service) has reviewed the proposed action and determined that no federally listed species, candidate species, or designated critical habitat occurs within the project area. Furthermore, the Service has determined that this action will have negligible impacts on wetlands, migratory birds, and other priority fish and wildlife resources.”

**RE: Request for Information
3691 Plass Road
Festus, MO 63028
Latitude 38.2462, Longitude -90.4899**


Field Supervisor 3/24/10
Date

Mr. Scott:

Mapaville Fire Protection District has retained NPN Environmental to prepare an Environmental Assessment in accordance with the Federal Emergency Management Agency (FEMA) regulations at 44 CFR Part 10 and Council on Environmental Quality Regulations at 40 CFT Part 1500-1508. As part of the Environmental Assessment for the above-referenced site, the following information is requested:

- Rare, threatened, or endangered species on or within one-half mile radius of site
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- Wilderness, natural areas, critical habitat, preserves and forests, wildlife refuges, terrestrial breeding areas, and wildlife or game management areas on or within one-half mile radius of the site

The 3-acre project site is currently a vacant and undeveloped, formerly residential site as shown on *Figure 1 – Vicinity Map* and *Figure 2 – 2008 Aerial Photograph*. The Mapaville Fire Protection District proposes to construct a new fire station and associated paved parking and driveways on the project site.

Mr. Charles Scott
March 19, 2010
Page 2 of 2

Thank you for your prompt consideration of our request. If you have any questions or require additional information, please contact me at 636-343-1300.

Sincerely,



Ruth C. Mannebach
Senior Environmental Scientist

Enclosures Figure 1 – Vicinity Map
 Figure 2 – 2008 Aerial Photograph



MISSOURI DEPARTMENT OF NATURAL RESOURCES
STATE HISTORIC PRESERVATION OFFICE
SECTION 106 PROJECT INFORMATION FORM

Submission of a completed Project Information Form with adequate information and attachments constitutes a request for review pursuant to Section 106 of the National Historic Preservation Act of 1966 (as amended). We reserve the right to request more information. **Please refer to the CHECKLIST on Page 2 to ensure that all basic information relevant to the project has been included.** For further information, refer to our Web site at: <http://www.dnr.state.mo.us/shpo> and follow the links to Section 106 Review.

NOTE: Section 106 regulations provide for a 30-day response time by the Missouri State Historic Preservation Office from the date of receipt.

PROJECT NAME

FEDERAL AGENCY PROVIDING FUNDS, LICENSE, OR PERMIT

APPLICANT

TELEPHONE

CONTACT PERSON

TELEPHONE

ADDRESS FOR RESPONSE

LOCATION OF PROJECT

COUNTY: _____

STREET ADDRESS: _____ CITY: _____

GIVE LEGAL DESCRIPTION OF PROJECT AREA (TOWNSHIP, RANGE, SECTION, ¼ SECTION, ETC.)

*USGS TOPOGRAPHIC MAP QUADRANGLE NAME _____

YEAR: _____ TOWNSHIP: _____ RANGE: _____ SECTION: _____

*SEE MAP REQUIREMENTS ON PAGE 2

PROJECT DESCRIPTION

- Describe the overall project in detail. If it involves excavation, indicate how wide, how deep, etc. If the project involves demolition of existing buildings, make that clear. If the project involves rehabilitation, describe the proposed work in detail. Use additional pages if necessary.

ARCHAEOLOGY (Earthmoving Activities)

Has the ground involved been graded, built on, borrowed, or otherwise disturbed?

- Please describe in detail: (Use additional pages, if necessary.) Photographs are helpful.

Will the project require fill material? Yes No

- Indicate proposed borrow areas (source of fill material) on topographic map.

Are you aware of archaeological sites on or adjacent to project area? Yes No

- If yes, identify them on the topographic map.

STRUCTURES (Rehabilitation, Demolition, Additions to, or Construction near existing structures)

To the best of your knowledge, is the structure located in any of the following?

An Area Previously Surveyed for Historic Properties A National Register District A Local Historic District
If yes, please provide the name of the survey or district:

- Please provide photographs of all structures, see photography requirements.
- **NOTE:** All photographs should be labeled and keyed to one map of the project area.
- Please provide a brief history of the building(s), including construction dates and building uses. (Use additional pages, if necessary.)

ADDITIONAL REQUIREMENTS

Map Requirements: Attach a copy of the relevant portion (8½ x 11) of the current USGS 7.5 min. topographic map **and**, if necessary, a large scale project map. Please do not send an individual map with each structure or site. While an original map is preferable, a good copy is acceptable. USGS 7.5 min. topographic maps may be ordered from Geological Survey and Resource Assessment Division, Department of Natural Resources, 111 Fairground, Rolla, MO 65402, Telephone: (573) 368-2125, or printed from the website <http://www.topozone.com>.

Photography Requirements: Clear black & white or color photographs on photographic paper (minimum 3" x 5") are acceptable. Polaroids, photocopies, emailed, or faxed photographs are not acceptable. **Good quality photographs are important for expeditious project review.** Photographs of neighboring or nearby buildings are also helpful. All photographs should be labeled and keyed to one map of the project area.

CHECKLIST: Did you provide the following information?

- | | |
|--|--|
| <input type="checkbox"/> Topographic map 7.5 min. (per project, not structure) | <input type="checkbox"/> Other supporting documents (If necessary to explain the project) |
| <input type="checkbox"/> Thorough description (all projects) | <input type="checkbox"/> For new construction, rehabilitations, etc., attach work write-ups, plans, drawings, etc. |
| <input type="checkbox"/> Photographs (all structures) | <input type="checkbox"/> Is topographic map identified by quadrangle and year? |

Return this Form and Attachments to:

**MISSOURI DEPARTMENT OF NATURAL RESOURCES
STATE HISTORIC PRESERVATION OFFICE
Attn: Section 106 Review
P.O. BOX 176
JEFFERSON CITY, MISSOURI 65102-0176**

CULTURAL RESOURCE ASSESSMENT
Section 106 Review

CONTACT PERSON/ADDRESS

C:

Ruth Mannebach
NPN Environmental Engineers, Inc.
1631 Headland Drive
St. Louis, Missouri 63026

Roger Benson, FEMA

PROJECT:

Fire Station, 3691 Plass Road, Festus

FEDERAL AGENCY

FEMA

COUNTY:

JEFFERSON

The State Historic Preservation Office has reviewed the information submitted on the above referenced project. Based on this review, we have made the following determination:

After review of initial submission, the project area has a low potential for the occurrence of cultural resources. A cultural resource survey, therefore, is not warranted.

Adequate documentation has been provided (36 CFR Section 800.11). There will be "no historic properties affected" by the current project.

An adequate cultural resource survey of the project area has been previously conducted. It has been determined that for the proposed undertaking there will be "no historic properties affected".

For the above checked reason, the State Historic Preservation Office has no objection to the initiation of project activities. PLEASE BE ADVISED THAT, IF THE CURRENT PROJECT AREA OR SCOPE OF WORK ARE CHANGED, A BORROW AREA IS INCLUDED IN THE PROJECT, OR CULTURAL MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, APPROPRIATE INFORMATION MUST BE PROVIDED TO THIS OFFICE FOR FURTHER REVIEW AND COMMENT. Please retain this documentation as evidence of compliance with Section 106 of the National Historic Preservation Act, as amended.

By:



Mark A. Miles, Deputy State Historic Preservation Officer

March 31, 2010

Date

MISSOURI DEPARTMENT OF NATURAL RESOURCES
STATE HISTORIC PRESERVATION OFFICE
P.O. Box 176, Jefferson City, Missouri 65102

For additional information, please contact Judith Deel, (573) 751-7862. Please be sure to refer to the project number:

063-JE-10