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Final

Environmental Assessment

Construct Fire Station/Air Traffic Control Tower/RAPCON at Grand Forks AFB, North Dakota

Prepared by:

Department of the Air Force

Air Force Center for Environmental Excellence

Brooks City-Base, Texas

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The 319 CES is proposing to construct a new fire station, ATC tower, and RAPCON at Grand Forks AFB. Subsequently, the old fire station and control tower would be demolished. This EA has been prepared in accordance with the National Environmental Policy Act of 1969 Council on Environmental Quality, and Air Force Environmental Impact Analysis Process. The proposed action would be implemented within the airfield operations area on Grand Forks AFB. Relevant resources evaluated in this EA include air quality, soil resources, water resources biological resources, cultural resources, noise, socioeconomics, environmental justice transportation, and environmental programs. The 319 CES and Headquarters Air Mobility Command conducted extensive site surveys to evaluate alternatives for the action. Alternate sitings for the fire station and ATC tower!RAPCON were considered, but these alternatives did not meet the selection criteria and were eliminated from further consideration. In addition to the analysis of potential impacts from implementation of the proposed action and no action alternative, the EA evaluates cumulative impacts of past, present, and reasonably foreseeable future actions relevant to the proposed action.

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COVER SHEET

Environmental Assessment
Construct Fire Station/Air Traffic Control Tower/RAPCON at Grand Forks AFB, North Dakota

Lead Agency: Department of the Air Force, 319 Civil Engineering Squadron (CES)

Proposed Action: Construct New Fire Station and Air Traffic Control (ATC) Tower/Radar Approach Control (RAPCON) at Grand Forks Air Force Base (AFB) and Demolish Old Facilities.

Written comments and inquiries regarding this document should be directed to: Ms. Heidi Durako, 319 CES/CEV, 525 Tuskegee Airmen Boulevard, Grand Forks AFB, ND 58205-6434, 701-747-4774

Report Designation: Final Environmental Assessment (EA)

Abstract: The 319 CES is proposing to construct a new fire station, ATC tower, and RAPCON at Grand Forks AFB. Subsequently, the old fire station and control tower would be demolished. This EA has been prepared in accordance with the National Environmental Policy Act of 1969, Council on Environmental Quality, and Air Force Environmental Impact Analysis Process. The proposed action would be implemented within the airfield operations area on Grand Forks AFB. Relevant resources evaluated in this EA include air quality, soil resources, water resources, biological resources, cultural resources, noise, socioeconomics, environmental justice, transportation, and environmental programs. The 319 CES and Headquarters Air Mobility Command conducted extensive site surveys to evaluate alternatives for the action. Alternate sitings for the fire station and ATC tower/RAPCON were considered, but these alternatives did not meet the selection criteria and were eliminated from further consideration. In addition to the analysis of potential impacts from implementation of the proposed action and no action alternative, the EA evaluates cumulative impacts of past, present, and reasonably foreseeable future actions relevant to the proposed action.

FINDING OF NO SIGNIFICANT IMPACT
Environmental Assessment
Construct Fire Station/Air Traffic Control Tower/RAPCON at Grand Forks AFB, North Dakota

Introduction

This Finding of No Significant Impact (FONSI) was prepared in accordance with the National Environmental Policy Act (NEPA) of 1969, 42 United States Code (USC) 4231 et seq. , as amended in 1975; Council on Environmental Quality (CEQ), 40 Code of Federal Regulations (CFR) §§ 1500-1508; and Environmental Impact Analysis Process (EIAP), 32 CFR § 989. The decision in this FONSI is based upon information contained in the environmental assessment (EA) of the proposed construction of a fire station and air traffic control (ATC) tower/radar approach control (RAPCON) at Grand Forks Air Force base (AFB), North Dakota. The EA analyzed potential environmental consequences from implementation of the proposed action or no action alternative.

Background

The 319 Civil Engineering Squadron (CES) proposes to replace the existing fire station and ATC tower/RAPCON facility; demolish the old fire station and ATC tower; and implement environmental controls. A new fire station will provide adequate fire protection for U.S. Air Force (USAF) aircraft and facilities, improve firefighting response time, and improve morale and retention of military and civilian firefighters. A modern, efficient fire station is needed to house all authorized airfield and base firefighting vehicles, equipment, and on-duty firefighting personnel living in the new fire station. Construction of a new ATC tower and collocating the RAPCON facility will improve flight safety, training, operational, and facility efficiencies. A properly sized ATC tower is needed to meet USAF and Federal Aviation Administration (FAA) standards for safety, efficiency, effectiveness, and uncompromised control of flying traffic. Constructing a new RAPCON facility with the ATC tower will allow the installation of the Standard Terminal Automation Replacement System radar consoles without interruption of radar service, expanded training opportunities, and implementation of a traffic control simulator to meet the requirements of the FAA upgrade for national airspace facilities. Demolition of the old

fire station and ATC tower will eliminate the excess facilities and permit revegetation of the sites. Implementation of environmental controls will provide protection of the human and natural environment during construction and demolition activities.

The 319 CES and Headquarters Air Mobility Command conducted extensive site surveys to evaluate alternatives for the action. Alternate sitings for the fire station and ATC tower/RAPCON were considered, but these alternatives did not meet the selection criteria and were eliminated from further consideration. Elimination of alternatives that did not meet the selection criteria resulted in the evaluation of potential environmental consequences that would result from implementing either the proposed action or no action alternative.

The proposed action consists of four parts: construction of a consolidated crash/structural fire station, construction of a collocated ATC tower and RAPCON facility, demolition of the old fire station (Building 530) and the old ATC tower (Building 634), and implementation of environmental controls during construction activities for protection of the human and natural environment. The new fire station will be a consolidated facility to provide fire protection services for the airfield in the event of an aircraft accident or other need and for the base facilities. The new ATC tower and RAPCON facility will be constructed to meet USAF and FAA standards for upgrade to national airspace facility requirements. The old RAPCON would remain in place for reuse as another facility function. The current fire station and ATC tower will be demolished after completion of the construction activities and operation check of the new facilities. Demolition will be performed using conventional methods, such as a wrecking ball; debris will be disposed of at an approved off-site landfill. All work will be performed in accordance with applicable federal, state, and local regulations and guidelines, including best management practices, to protect the human and natural environment. The proposed action will cost approximately $14.8 million and will be conducted over a period of nine months.

Decision

Based on the review of the EA, I have decided to proceed with the proposed action. The potential impacts to the human and natural environment were evaluated relative to the affected environment. For each environmental resource or issue, anticipated direct and indirect effects were assessed, considering both short- and long-term project impacts. The following paragraph summarizes the evaluation of environmental consequences.

Implementation of the proposed action will have a temporary, minor impact from fugitive dust on local air quality during construction activities, which will cease once construction activities are completed. Potential impacts to soils and water resources will be minimal and short-term. Long-term negative impacts to biological resources, including vegetation, wildlife, and threatened and endangered species, will not occur. There are no cultural resources in the project areas that would be impacted by the proposed action. The noise levels on base will temporarily increase during construction and demolition activities, but not beyond existing levels. There will be short-term and minor benefits to socioeconomics in the region of influence; however, no long-term impacts will occur. No environmental justice impacts will result from implementing the proposed action. Short-term impacts to transportation from construction and demolition vehicle traffic will be minor. Implementation of the proposed action will result in long-term benefits to personnel health and safety by improving the living and working conditions in the new facilities. Long-term impacts to environmental programs at Grand Forks AFB, including hazardous materials and waste management, storm water and wastewater management, solid waste management, installation restoration program sites, asbestos-containing material abatement, and lead-based paint abatement, will not occur. The incremental contribution of impacts resulting from implementation of the proposed action, when considered in combination with other past, present, and reasonably foreseeable future actions, will be negligible.

Conclusion

In accordance with the CEQ regulations implementing NEPA and the USAF EIAP, I conclude that implementation of the proposed action will have no significant impact on the quality of the human environment and that the preparation of an environmental impact statement is not warranted.

Approved:  Date: 2 OCT 03

Steven E. Wayne, Colonel, USAF
Chairman of the Environmental Protection Committee, Grand Forks AFB

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ACRONYMS AND ABBREVIATIONS

ACM	asbestos-containing materials
AFB	Air Force Base
AFI	Air Force Instruction
AFOSH	Air Force Occupational Safety and Health
AICUZ	Air Installation Compatible Use Zone
AMC	Air Mobility Command
AT/FP	anti-terrorism/force protection
ATC	air traffic control
BEA	Bureau of Economic Analysis
BMP	best management practice
CAA	Clean Air Act
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CES	Civil Engineering Squadron
CEV	Civil Engineering Environmental
CFR	Code of Federal Regulations
CO	carbon monoxide
CWA	Clean Water Act
dBA	A-weighted decibel
DoD	Department of Defense
EA	Environmental Assessment
EIS	Environmental Impact Statement
EO	Executive Order
EPCRA	Emergency Planning and Community Right-to-Know Act
ESA	Endangered Species Act
ESQD	explosive safety quantity distance
FAA	Federal Aviation Administration
FONSI	Finding of No Significant Impact
H_2S	hydrogen sulfide
HAP	hazardous air pollutants
HAZMART	hazardous materials pharmacy program
ICRMP	Integrated Cultural Resources Management Plan
INRMP	Integrated Natural Resources Management Plan
IRP	installation restoration program
Kg	kilogram
LBP	lead-based paint
mg/m^3	milligrams per cubic meter
NAAQS	National Ambient Air Quality Standards
NDAAQS	North Dakota Ambient Air Quality Standards
NDAC	North Dakota Administrative Code
NDDH	North Dakota Department of Health
NDJS	North Dakota Job Service
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollutants

ACRONYMS AND ABBREVIATIONS (cont'd)

NHPA	National Historic Preservation Act
NO_2	nitrogen dioxide
NO_X	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
O_3	ozone
OSHA	Occupational Safety and Health Act
Pb	lead
PM_{10}	particulate matter less than 10 microns in diameter
$PM_{2.5}$	particulate matter less than 2.5 microns in diameter
ppm	parts per million
PSD	prevention of significant deterioration
RACM	regulated asbestos containing materials
RAPCON	radar approach control
RCRA	Resource Conservation and Recovery Act
ROI	region of influence
SAGE	Semi-Automatic Ground Environment
SARA	Superfund Amendments and Reauthorization Act
SHPO	State Historic Preservation Office
SHSND	State Historical Society of North Dakota
SO_2	sulfur dioxide
STARS	Standard Terminal Automation Replacement System
tpy	tons per year
TSP	total suspended particulates
UFC	Unified Facilities Criteria
$\mu g/m^3$	micrograms per cubic meter
USAF	U.S. Air Force
USEPA	United States Environmental Protection Agency
USC	U.S. Code
VOC	volatile organic compounds

EXECUTIVE SUMMARY

Environmental Assessment
Construct Fire Station/Air Traffic Control Tower/RAPCON at Grand Forks AFB, North Dakota

Introduction

The 319 Civil Engineering Squadron (CES) proposes to construct a fire station, air traffic control (ATC) tower/radar approach control (RAPCON), and implement environmental controls at Grand Forks Air Force Base (AFB), North Dakota. Subsequently, the old fire station and control tower would be demolished. Grand Forks AFB encompasses 4,830 acres of land in the central portion of Grand Forks County in eastern North Dakota.

Purpose and Need

The purpose of the proposed new fire station is to consolidate fire protection activities for U.S. Air Force (USAF) aircraft and facilities, improve firefighting response time, and improve morale and retention of military and civilian firefighters at Grand Forks AFB. The current fire station (Building 530) was built in 1957 and does not meet life safety codes or standards of living according to the USAF Fire Station Design Guide. A modern, efficient fire station is needed to house all authorized airfield and base firefighting vehicles, equipment, and on-duty firefighters living in the fire station.

The purpose of the new ATC tower is to more efficiently control air traffic from Grand Forks AFB. The current ATC tower (Building 634) is a 9-story corrugated metal building on reinforced concrete that was constructed in 1974. This facility is one-third the size of most USAF control tower cabs, does not meet current USAF or Federal Aviation Administration (FAA) standards as specified in Air Force Handbook 32-1084, and is the oldest standing ATC tower in the Air Mobility Command (AMC). A properly sized ATC tower is needed to meet USAF and FAA standards for safety, efficiency, effectiveness, and uncompromised control of flying traffic.

The purpose of the proposed new RAPCON is to consolidate ATC and radar activities into one complex. The existing RAPCON (Building 635) is near the ATC tower and is a reinforced concrete building built in 1973. The RAPCON is outdated and inefficient because of its

separation from the ATC tower. Constructing a new RAPCON collocated with the ATC tower would allow the installation of the Standard Terminal Automation Replacement System radar consoles without interruption of radar service, expanded training opportunities, and implementation of a traffic control simulator to meet the requirements of the FAA upgrade for national airspace facilities.

Proposed Action

There are four parts to the proposed action (1) construction of a consolidated crash/structural fire station, (2) construction of a collocated ATC tower/RAPCON, (3) demolition of the old fire station and the old ATC tower, and (4) implementation of environmental controls during construction and demolition activities for protection of the human and natural environment.

1. The new fire station would include installation of underground utilities (gas, water, and electricity) and communications infrastructure, pavements for parking, access roads to the flight line and the base transportation system, site improvements for drainage and landscaping, and anti-terrorism/force protection (AT/FP) physical security.

2. The new ATC tower and RAPCON would be constructed to meet USAF standards and the FAA upgrade requirements for national airspace facilities. The old RAPCON building would be reused for another facility function. The new tower would be taller than the existing tower to provide sufficient visual surveillance and depth perception of the aerodrome.

3. Demolition of the current fire station and ATC tower would proceed after completion of the construction activities and operation check of the new facilities. Conventional methods of demolition with a wrecking ball and debris disposal at an approved off-site landfill would be used. The demolition sites would subsequently be revegetated with turf grass and landscape trees to match the surrounding landscapes.

4. All work shall be performed in accordance with applicable federal, state, and local regulations and guidelines, including best management practices (BMPs), to protect the human and natural environment. Construction and demolition activities would be conducted in accordance with USAF safety regulations and standards prescribed by the Air Force Instruction 91-301, Air Force Occupational Safety and Health. Environmental controls would include, but not be limited to, preconstruction survey report, health and safety plan, pollution prevention plan, storm water

protection plan, erosion and sediment control plan, waste disposal plan, dust control plan, and asbestos removal plan. The contractor performing the action would be required to submit these plans and specifications to the 319 CES for approval prior to initiating work.

No Action Alternative

This alternative would leave the fire station, ATC tower, and RAPCON in place. Adequate fire protection for aircraft and facilities in accordance with USAF standards would not be provided. The substandard ATC tower would continue to deteriorate further below USAF and FAA standards, causing major safety concerns for aircrews and air traffic controllers at Grand Forks AFB. Failure to relocate the RAPCON would preclude operational efficiencies and would not meet the upgrade requirements for National Airspace System facilities.

Environmental Consequences

Only temporary and minor impacts would be expected from implementing the proposed action. Potential impacts were evaluated using three months for demolition activities and six months for construction activities. Under the no action alternative, there would be no change to the baseline conditions for the resources evaluated.

Air Quality. Implementation of the proposed action would have temporary, minor impacts on air quality, which would return to preconstruction levels at the completion of construction and demolition activities.

Soils. Approximately 5 acres would be disturbed, following an approved erosion and sediment control plan, in completing the construction and demolition activities. The soils in the project areas have been previously disturbed by development for facilities and cropland. No long-term impacts would be expected following grading and revegetation in the project areas.

Water Resources. No long-term impacts to water resources would be expected. Short-term impacts to water resources would be avoided or minimized through implementation of BMPs (i.e., erosion control measures) as part of the proposed action.

Biological Resources. Long-term negative impacts to vegetation, wildlife, and threatened and endangered species would not occur. Natural or regionally significant plant communities do not occur in the project areas; the long history (almost 50 years) of maintaining turf grass in the

airfield operations area has resulted in minimal ecological value of biological resources; and no rare, threatened, or endangered species occur at Grand Forks AFB.

Cultural Resources. There are no known National Register of Historic Places (NRHP) -eligible or potentially eligible sites in the proposed project areas and appropriate measures would be in place in the event of a discovery of previously unrecorded sites. Therefore, the proposed action would not impact any buildings or structures eligible or potentially eligible for listing on the NRHP.

Noise. Long-term impacts from noise would not be expected. There are no sensitive noise receptors (e.g., residential areas, hospitals, churches) within 4,000 feet of the project areas. Short-term impacts associated with construction and demolition activities would be minor, temporary, and cease at the completion of these activities.

Socioeconomics. The proposed action would not involve relocation of personnel to the region of influence (ROI); therefore, no change to the population would be expected. The economic benefits would be local and short-term with no permanent employment positions created; therefore, there would be no long-term changes to employment and income potential in the ROI.

Environmental Justice. There are no low-income or minority populations within or immediately adjacent to the project areas; therefore, no impacts to environmental justice would be expected.

Transportation. The movement of equipment and vehicles for construction and demolition activities would result in short-term, minor impacts to traffic and circulation during peak hours at Grand Forks AFB. Construction and demolition traffic would enter and exit through the South Gate, which is used primarily for contractor access.

Environmental Programs. Implementation of the proposed action will result in long-term benefits to personnel health and safety by improving the living and working conditions in the new facilities. Long-term impacts to hazardous materials and waste management, storm water and wastewater management, solid waste management, installation restoration program sites, asbestos-containing material abatement, and lead-based paint abatement would not occur.

Cumulative Impacts. The potential environmental impacts resulting from the incremental impacts of the proposed action when added to other past, present, and reasonably foreseeable

future actions were considered for the cumulative impacts analysis. The Master Space Plan described in the 2001 General Plan for Grand Forks AFB was developed to guide development for the next 15 to 20 years. Under the plan, substandard facilities will be demolished and replaced with new construction that meets AMC standards. The proposed action would likely be concurrent with capital improvement projects specified in the 2001 General Plan that would be assessed in separate NEPA documents as necessary. Potential impacts to resources would be similar to the proposed action in this EA and would revert to baseline conditions after completion of the individual projects. The USAF land use planning process is designed to ensure efficient use of available resources and that the functional relationships of land use arrangements meet the goals and objectives of the base. Limited growth is anticipated at Grand Forks AFB and no major mission changes or population fluctuations are anticipated in the foreseeable future.

1.0 PURPOSE AND NEED FOR ACTION

1.1 Introduction

The 319 Civil Engineering Squadron (CES) is proposing to construct a fire station, air traffic control (ATC) tower/radar approach control (RAPCON), and implement environmental controls at Grand Forks Air Force Base (AFB), North Dakota. Subsequently, the old fire station and control tower would be demolished. The 319 Air Refueling Wing serves as the host unit and maintains its mission as the first core-refueling wing in the Air Mobility Command (AMC). This Environmental Assessment (EA) has been prepared to analyze the potential impacts associated with the action in accordance with the:

- National Environmental Policy Act (NEPA) of 1969, 42 U.S. Code (USC) 4231, et seq., as amended in 1975;
- Council on Environmental Quality (CEQ), 40 Code of Federal Regulations (CFR) §§ 1500-1508; and
- U.S. Air Force (USAF) Environmental Impact Analysis Process (EIAP), 32 CFR § 989.

1.2 Location of Proposed Action

Grand Forks AFB encompasses 4,830 acres of land along U.S. Highway 2 in the central portion of Grand Forks County in eastern North Dakota. The base occupies portions of Mekinock and Blooming townships near the town of Emerado, approximately 15 miles west of the City of Grand Forks (Figure 1-1). The City of Grand Forks is the third largest city in North Dakota, with a population of 45,000 (U.S. Census Bureau 2003), and is located approximately 75 miles south of the Canadian border. The proposed action would be implemented within the airfield operations area on Grand Forks AFB. The runway is oriented north-south and divides the base into open areas on the west and the main cantonment area on the east.

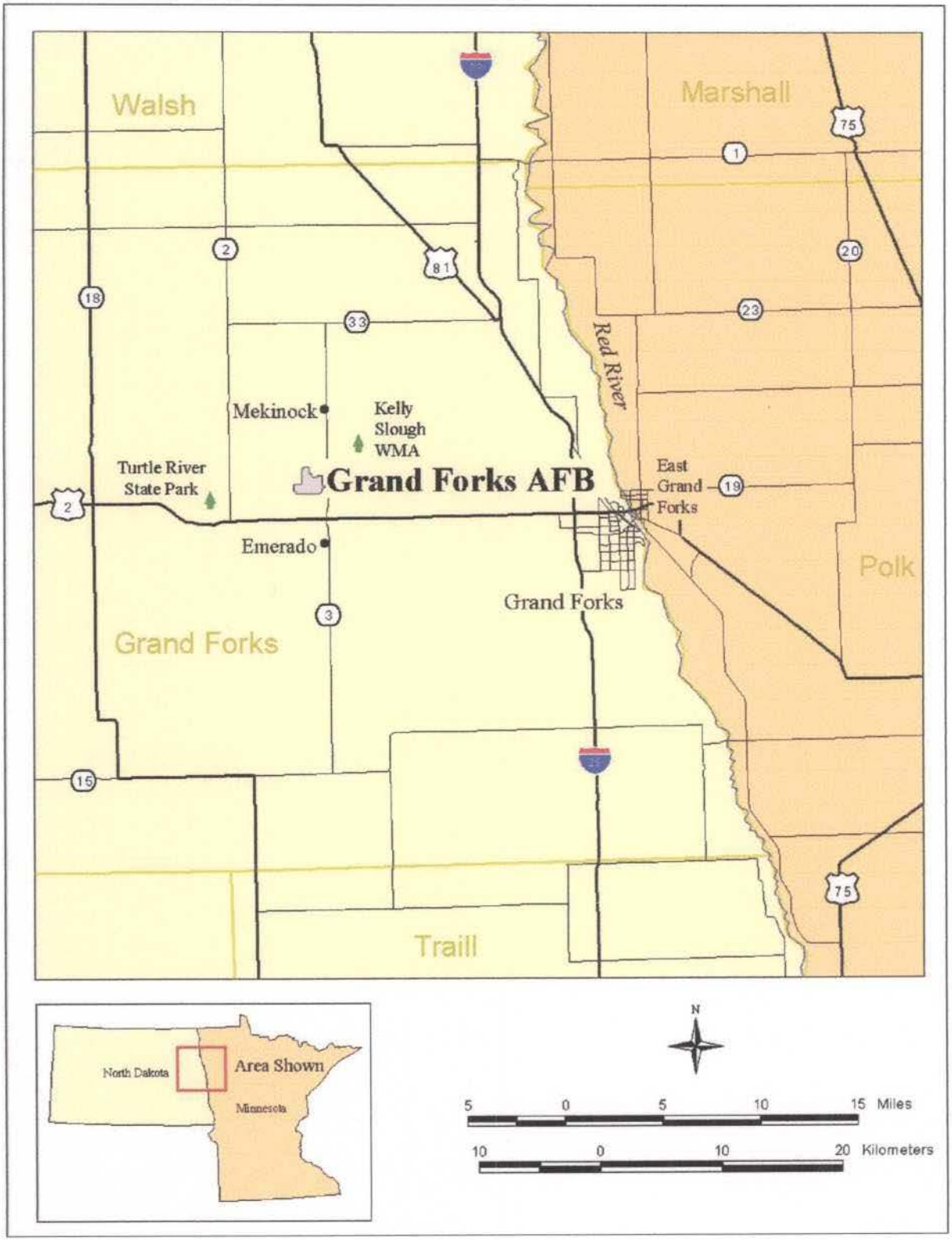

Figure 1-1. Vicinity Map of Grand Forks AFB.

safety, training, operational, and facility efficiencies. Demolition of the old fire station and ATC tower would eliminate the excess facilities and permit revegetation of the sites. Implementation of environmental controls would provide protection of the human and natural environment during construction and demolition activities.

1.5 Scope of the EA

This EA evaluates the potential impacts of construction and demolition activities for replacement of the fire station and ATC tower at Grand Forks AFB. Potential impacts to the human and natural environment could be short-term, long-term, or cumulative. The 319 CES prepared a request for environmental impact analysis (Air Force Form 813) and conducted a preliminary environmental survey to determine the scope of this EA (Appendix A). In addition, project meetings with base personnel, site surveys, and regulatory coordination (Appendix A) were conducted as part of the scoping effort. Consistent with NEPA, Grand Forks AFB provided a 30-day public review and comment period before finalizing the decision on the action. No comments were received from the public.

Relevant resources evaluated in this EA include air quality, soil resources, water resources, biological resources, cultural resources, noise, socioeconomics, environmental justice, transportation, and environmental programs. Potential impacts to air quality are evaluated against the National Ambient Air Quality Standards (NAAQS). Soil resources would be impacted if the action resulted in decreased land use potential as a result of soil degradation. Water resources would be impacted if the action resulted in a change to the groundwater or surface water quantity or quality. Biological resources would be impacted if the action resulted in reduced viability of native vegetation, wildlife, threatened or endangered species, or wetlands relative to baseline conditions contained in the 2003 update to the Integrated Natural Resources Management Plan (INRMP) for Grand Forks AFB (Grand Forks AFB 2003). Potential impacts to cultural resources would be evaluated using information contained in the 2002 Integrated Cultural Resources Management Plan (ICRMP) for Grand Forks AFB (AMC 2003). Background noise levels would be impacted if the action changed the noise environment for sensitive receptors. Socioeconomics would be impacted if changes in demographics, employment opportunities, or income potential were negatively affected. Environmental justice impacts to minority and low-income populations would occur if these populations were

disproportionately affected compared to other adjacent populations. Transportation resources would be impacted if level of service was substantially decreased or the system reached or exceeded current capacity levels. Potential impacts to environmental programs include health and safety issues, hazardous materials and hazardous waste management, storm water and wastewater management, solid waste management, installation restoration program (IRP) sites, regulated asbestos-containing materials (RACM), and lead-based paint (LBP). The potential environmental effects of the proposed action would be those associated with construction and demolition activities involving heavy equipment operations at Grand Forks AFB. In addition, the EA examines the cumulative effects of the action when added to past, present, and reasonably foreseeable future projects at Grand Forks AFB.

1.6 Decision to be Made

The Base Civil Engineer and Chairman of the Environmental Protection Committee at Grand Forks AFB would be responsible for deciding whether to issue a Finding of No Significant Impact (FONSI) for the proposed action or alternative, or to prepare an Environmental Impact Statement (EIS). As required by NEPA and its implementing regulations, this EA must precede a final decision on the action to inform decision makers of the potential environmental impacts. The decision would be to either implement the proposed action or to select the no action alternative. The decision will be based on the findings contained in this EA.

1.7 Applicable Regulatory Requirements and Required Coordination

This EA has been prepared in compliance with NEPA; other federal statutes, such as the Endangered Species Act (ESA), Clean Water Act (CWA), Clean Air Act (CAA), and National Historic Preservation Act (NHPA); Executive Orders (EOs); and other applicable state statutes and regulations. In order to implement the proposed action, various federal and state reviews, plans, and permits would be required. Potential permits and environmental protection plans required by Grand Forks AFB and the State of North Dakota include, but are not limited to, the following:

- Soil erosion control plan;
- Storm water general permit for construction activities;
- Storm water management plan;

- Solid waste disposal plan; and
- Notification of demolition and renovation.

1.8 Related NEPA Documents

The USAF (2002a) prepared an EA in 2002 for demolition of the Semi-Automatic Ground Environment (SAGE) Building (Building 306) at Grand Forks AFB and consolidation of the functions to new and existing buildings. Based on the review of the EA, the Chairman of the Environmental Protection Committee decided to issue a FONSI and proceeded with the proposed action to remove an aged and inefficient facility, improve base appearance, improve energy efficiency, and increase safety on the base. The action included demolition of the SAGE Building; construction of a new facility for the Area Defense Council; renovation of Building 252 to add three classrooms; alteration of Building 313 to accommodate Air Refueling Wing administration; alteration of Building 516 to accommodate Alternate Command Post/Crisis Action Team; and relocation of approximately 85 personnel to consolidate functional work units. The current action to replace the existing fire station, ATC tower, and RAPCON facility; demolish the old fire station and ATC tower; and implement environmental controls is similar to the action for the SAGE Building.

2.0 DESCRIPTION OF ALTERNATIVES INCLUDING THE PROPOSED ACTION

2.1 Introduction

This section describes the alternatives the USAF has analyzed to accomplish the action. Section 2.0 presents the proposed action, no action alternative, and identifies the alternatives the USAF has eliminated. The alternatives eliminated did not fully meet the selection criteria established for the proposed action. Alternatives carried forward for detailed analysis in this EA were identified as meeting the underlying purpose and need for the action. The no action alternative is carried forward for analysis as a baseline to which all other alternatives are compared in accordance with NEPA § 1502.14(d).

2.2 Selection Criteria for Alternatives

In an effort to satisfy the purpose and need for the action, several selection criteria were developed to compare and contrast alternative ways of fulfilling the objectives of the proposed action in accordance with 32 CFR § 989.8(c). Those specific criteria include:

- Locate the facilities in the airfield operations area without adversely impacting the flying operations or future land uses in the airfield operations area. Direct access to the flight line and base transportation system is a requirement for location of the fire station to provide emergency response services to protect aircraft, aircrews, and base facilities. Construction of drive-through stalls in the new fire station is required to allow aircraft rescue and firefighting vehicles and structural vehicles to respond to flight line and structural emergencies throughout the base.
- Siting of the fire station should be centrally located along the flight line for minimizing the firefighting response time and optimizing airfield observations.
- Locate the fire station outside the explosive safety quantity distance (ESQD) arcs. The Fire Station Design Guide (USAF 1997) specifies that the design and siting of fire station facilities must accommodate the equipment needs, unique functional requirements, and safety of firefighting personnel to support the firefighter's mission.
- Locate the ATC tower and RAPCON along the flight line to provide airfield surveillance and radar control of aircraft activities in accordance with USAF siting requirements. Use existing utilities infrastructure for new facilities.
- The alternatives must include specifications for the National Airspace System, as directed by the FAA, which represents the overall environment for the safe operation of aircraft. In addition, anti-terrorism/force protection (AT/FP) physical security requirements must be met. To be considered a viable alternative, construction of a new fire station and ATC tower/RAPCON would need to be in compliance with USAF planning and design manuals, FAA design standards, and Department of

Defense (DoD) requirements for AT/FP. The documents listed below provide specifications and standards for the alternatives:

- Unified Facilities Criteria (UFC) 4-010-01, AT/FP Specifications;
- USAF Handbook 32-1084, Facility Requirements;
- USAF Fire Station Design Guide (1997);
- Air Installation Compatible Use Zones for Grand Forks AFB (1995);
- UFC 3-260-01, Airfield and Heliport Planning and Design;
- USAF ATC Tower/RAPCON Design Guide; and
- FAA National Airspace System.

2.3 Alternatives Considered but Eliminated from Detailed Study

The 319 CES and Headquarters AMC conducted extensive site surveys to evaluate alternatives for the action. Alternate sitings for the fire station and ATC tower/RAPCON that involve location of these facilities west of the runway, south of the existing locations, east of the existing locations, and in the northern part of the airfield were considered, but the alternatives were eliminated from further consideration.

Relocation of the new fire station west of the runway would not provide direct access to the transportation system in the main cantonment area or adequate response time for fire protection of base facilities. Relocation of the new ATC tower/RAPCON west of the runway would require development of new utilities infrastructure to this area of the base and would place the air traffic pattern behind the controllers, causing a potential flight safety issue. Shifting the pattern eastward to allow observation of aircraft operations in the flight pattern was rejected because this would place the aircraft flight pattern over the base industrial and residential areas.

Siting the action in the southern and northern portions of the runway would preclude the requirement to be centrally located for minimizing firefighting response time and optimizing airfield observations. Relocation of the fire station and ATC tower east of the current locations would preclude direct access to the flight line due to the requirement to cross a primary road (Eielson Street). Construction of a new ATC tower/RAPCON on the existing tower site was eliminated from further consideration because this alternative would require the use of a mobile tower as an interim facility during demolition of the old tower, which could adversely impact aircraft operations.

Alternative sitings along the runway were considered, but these locations were hindered by existing facilities development and ESQD arcs. An alternative siting of the fire station across a paved road from the proposed site location was considered. This is the only available open space that is sufficient in size and unencumbered by safety concerns, in addition to the proposed action site, on the east side of the airfield and centrally located. However, this alternative site is an area that is reserved for future expansion of aircraft hangars (Grand Forks AFB 2001b).

2.4 Description of Alternatives

The elimination of alternatives that did not meet the selection criteria and the reserved status of the alternative site to relocate the fire station (future expansion of aircraft hangars) make the action alternatives not viable. Consequently, the EA analysis involves only the proposed action and the no action alternative.

2.4.1 Proposed Action

There are four parts to the proposed action (Figure 2-1): (1) construction of a consolidated crash/structural fire station, (2) construction of a collocated ATC tower/RAPCON, (3) demolition of the old fire station (Building 530) and the old ATC tower (Building 634), and (4) implementation of environmental controls during construction and demolition activities for protection of the human and natural environment.

1. The new fire station would be a consolidated facility to provide fire protection services for the airfield in the event of an aircraft accident or other need, and for the base facilities (Figure 2-2). The secondary fire station would remain in place after construction of the new fire station and reused for another facility function. The new construction would include installation of underground utilities (gas, water, and electricity) and communications infrastructure, pavements for parking, access roads to the flight line and the base transportation system, site improvements for drainage and landscaping, and AT/FP physical security. The proposed site location for the new fire station is immediately south of a landfill (IRP Site FT-02, Old Sanitary Landfill Area) in an undeveloped area that has been previously planted with various shrub and tree species (mostly exotic and invasive species) as part of the shelterbelt program and for screening the landfill from adjacent roads. The proposed site and the landfill are clearly separated by a fence and open right-of-way. There is a powerline through the proposed site that

debris at an approved off-site landfill would be used. Demolition debris would be trucked approximately 1.0 mile down Eielson Street directly to the South Gate for off-site disposal at the Grand Forks Municipal Landfill, which is approximately 12 miles from Grand Forks AFB. The demolition sites would subsequently be revegetated with turf grass and landscape trees to match the surrounding landscape.

4. All work shall be performed in accordance with applicable federal, state, and local regulations and guidelines, including best management practices (BMPs), to protect the human and natural environment. Construction and demolition activities would be conducted in accordance with USAF safety regulations and standards prescribed by the Air Force Occupational Safety and Health (AFOSH) requirements (Air Force Instruction [AFI] 91-301). Environmental controls that would be implemented during construction and demolition activities would include, but not be limited to, submittal of a preconstruction survey report, health and safety plan, pollution prevention plan, storm water protection plan, erosion and sediment control plan, waste disposal plan, dust control plan, and RACM removal plan. The contractor performing the action would be required to submit these plans and specifications to the 319 CES for approval prior to initiating work.

The contractor performing the action shall follow U.S. Environmental Protection Agency (USEPA) guidance (823-R-92-005, Storm Water Management for Construction Activities) to prevent storm water pollution. Compliance with the Grand Forks AFB Hazardous Waste Management Plan and the North Dakota Solid and Hazardous Waste Rules is required to properly accumulate, store, and turn-in hazardous wastes at Grand Forks AFB. Material identified or proposed for recycling or salvage must be stated in the Waste Disposal Plan. The contractor shall comply with North Dakota Administrative Code (NDAC) Section 33-15-17-03, Reasonable Precautions for Abating and Preventing Fugitive Particulate Emissions, and maintain all excavations, stockpiles, access roads, waste areas, and all other work areas free from excess dust in accordance with the regulation. All hazardous materials/waste spills must be reported to the Grand Forks AFB Contracting Officer in accordance with the Spill Control Plan. The Erosion and Sediment Control Plan must include, but not be limited to, stockpile location, control methods to eliminate erosion of the stockpiled material, identification of exposed natural

areas, and appropriate control methods. Noise from construction and demolition activities shall be minimized by providing equipment with proper mufflers and ensuring that construction and demolition activities are not conducted in early morning or late evening hours. According to the NDAC Section 33-15-13-02.6.a of the North Dakota Air Pollution Control Rules, only RACM must be removed prior to demolition. All necessary measures must be taken to minimize the disturbance of any asbestos-containing material (ACM) and to prevent any asbestos fiber release episodes. A Notification of Demolition and Renovation (Form 17987) must be submitted to the North Dakota Department of Health 10 days prior to initiating activities.

Coordination with the 319 CES IRP manager would be conducted to ensure that the proposed action is not in conflict with any Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or Resource Conservation and Recovery Act (RCRA) activities that could place personnel and/or the environment at risk. Although disturbance of cultural resources is not expected as a result of implementing the proposed action, procedures for stopping work in the event that cultural resources might be impacted would be included. Discovery of cultural resources would be reported to the 319 CES natural and cultural resources manager.

2.4.2 No Action Alternative

Although the no action alternative would not fulfill the purpose and need for the action, it is carried forward as a baseline for comparison of potential environmental effects. This alternative would leave the fire station, ATC tower, and RAPCON in place. Adequate fire protection for aircraft and facilities in accordance with USAF standards would not be provided. Firefighter response would continue to be hindered by an improperly located, unsafe, and inefficient fire station. Obsolete, cramped facilities would continue to adversely impact morale and retention of military and civilian firefighters. The substandard ATC tower would continue to deteriorate further below USAF and FAA standards, causing major safety concerns for aircrews and air traffic controllers at Grand Forks AFB. ATC personnel would face increased challenges trying to keep their systems operational, and facility inefficiencies would continue to adversely impact job performance, training, and morale. Failure to relocate the RAPCON would preclude any anticipated operational efficiencies resulting from collocation with the ATC tower and would not meet the upgrade requirements for National Airspace System facilities.

2.5 Description of Past, Present, and Reasonably Foreseeable Future Actions Relevant to Cumulative Impacts

This EA identifies actions referenced in the Grand Forks AFB 2001 General Plan (Grand Forks AFB 2001b) that have been conducted in the past, are ongoing or in the planning stages, and are proposed future actions that may be related to the proposed action. These actions are included in the cumulative impacts section to the extent that details regarding such actions exist and that the actions have the potential to interact with the proposed action. Separate NEPA documentation either has been prepared or will be prepared for the past, present, and reasonably foreseeable future actions.

2.6 Comparison of Alternatives

Table 2-1 summarizes the potential impacts of implementing the proposed action or selecting the no action alternative based on discussions with 319 CES personnel, review of Air Force Form 813 for this action, site surveys, and comparisons with similar military activities.

2.7 Identification of Preferred Alternative

The proposed action is the preferred alternative. It fulfills the selection criteria and is necessary to achieve the purpose and need for the action. The consequences of taking no action would result in further deterioration of facilities, inadequate fire protection, and substandard ATC activities.

Table 2-1. Comparison of Alternatives.

Resource/Issue	No Action	Proposed Action
Air Quality	No change	Potential short-term increase in emissions of fugitive dust and particulate matter; emissions would be below *de minimis* levels; no long-term effect
Soils	No change	Potential short-term, minor soil loss from excavation and grading activities; soil erosion control methods would reduce impacts; no long-term effect
Water Resources	No change	Potential short-term, minor effect to groundwater, surface water, and water quality from demolition and construction activities; no long-term effect
Biological Resources	No change	No regional or local effect on native vegetation and wildlife; no effect on threatened and endangered species; negligible loss of wetland; long-term positive effect from reduction of invasive plant species base on the INRMP
Cultural Resources	No change	No impact expected based on the ICRMP
Noise	No change	No long-term or major change to the noise environment; no sensitive receptors close to the project area to be affected by noise related to proposed action
Socioeconomics	No change	Potential short-term, minor benefits to income and employment in the ROI; no effect to population
Environmental Justice	No change	No effect on minority populations and low-income populations or protection of children from environmental health risks and safety risks
Transportation	No change	Potential short-term, negative effect to the base transportation system from additional vehicle traffic during construction and demolition activities; no long-term effects
Environmental Programs	Negative effects for health and safety, no change to other resources	Potential long-term benefits for health and safety issues by improving living conditions for on-duty firefighters; short-term increase in requirements for hazardous materials and waste management; short-term, minor effect to storm water and wastewater management; short-term increase in requirements for solid waste management; no effect on IRP sites; short-term increase in requirements for RACM management and long-term benefit from removal of asbestos; short-term, minor increase in management requirements for LBP removal and long-term benefits from removal of LBP

3.0 AFFECTED ENVIRONMENT

3.1 Introduction

This section describes the relevant environmental conditions at Grand Forks AFB for resources that would be potentially affected by implementation of the proposed action and no action alternative described in Section 2.0. Although the region of influence (ROI) or the expected geographic scope of potential impacts includes all of Grand Forks AFB, the actual limit of disturbance for the proposed action would be approximately 5 acres. Approximately 2 acres of impervious surface would be revegetated after demolition of the existing fire station and ATC tower. In compliance with guidelines contained in NEPA, the CEQ regulations, and AFI 32-7061, the description of the affected environment focuses on those resources potentially subject to impacts.

3.2 Air Quality

3.2.1 Regulatory Requirements

The CAA (42 USC § 7401, et seq., as amended) requires the EPA to set NAAQS for pollutants considered harmful to public health and the environment. The CAA established two types of national air quality standards. Primary standards set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. Secondary standards set limits to protect public welfare, including protection against decreased visibility and damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards has set NAAQS for six principal pollutants, which are called "criteria" pollutants. These are ozone (O_3), carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), lead (Pb), and particulate matter less than 10 microns in diameter (PM_{10}) and less than 2.5 microns in diameter ($PM_{2.5}$). Most O_3 is a result of volatile organic compounds (VOC) and nitrogen oxides (NO_X) reacting with sunlight. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air ($\mu g/m^3$). Areas not meeting NAAQS are designated as nonattainment areas for specified pollutants.

The North Dakota Air Quality Standards (Title 33) sets air quality standards and the North Dakota Hazardous Air Pollutants (HAP) Emission Standards (Title 33) establishes standards for

hazardous air pollutants for the state. Provisions for the control of air pollution in the state are provided in the North Dakota Air Pollution Control Act (Title 23). The North Dakota Ambient Air Quality Standards (NDAAQS) are more stringent than the federal NAAQS. In addition to the six NAAQS, North Dakota also has standards for hydrogen sulfide (H_2S). Table 3-1 presents the NAAQS and NDAAQS for criteria pollutants.

3.2.2 Existing Conditions

Grand Forks AFB is located in EPA Air Quality Control Region VIII. Prevention of significant deterioration (PSD) regulations (40 CFR § 52.21) establishes air quality levels that cannot be exceeded by major stationary emission sources in specified geographic areas. Grand Forks AFB is located in a PSD Class II area, which means that the addition of a major source or a significant increase in emissions from stationary sources would be subject to limits under PSD regulations. A significant increase in emissions would include 100 tons per year (tpy) of CO; 40 tpy of NO_x, VOCs, or SO_x; or 15 tpy of PM_{10}. These limits do not include emissions from mobile sources during construction of facilities.

An air emissions survey, conducted for Grand Forks AFB in 2001, found only minor levels of HAPs generated on base and actual emissions below PSD air quality levels (USAF 2002). Data from the North Dakota Department of Health (NDDH) air quality monitoring survey found that the ambient quality in North Dakota is generally good. The entire North Dakota Air Quality Control Region (including Grand Forks County) is in attainment for all criteria pollutants. The emissions inventory from the NDDH Title V Permit for Grand Forks AFB is presented in Table 3-2. Grand Forks AFB is a major stationary source, as the potential to emit for NO_x and CO is more than 100 tpy.

3.3 Environmental Management - Pollution Prevention and Geology and Soils

Prevention, management, and abatement of environmental pollution is accomplished at Grand Forks AFB in accordance with DoD Directive 4210.15 (Hazardous Materials Pollution Prevention), AFI 32-7086 (Hazardous Materials Management), and AFI 32-7080 (Pollution Prevention Program). These implementing regulations are incorporated in the Pollution Prevention Management Action Plan for Grand Forks AFB.

Table 3-1. National and North Dakota Ambient Air Quality Standards.

Pollutant	NAAQS Primary[a]	NAAQS Secondary[a]	NDAAQS
Pb Quarterly Average	1.5 $\mu g/m^3$	1.5 $\mu g/m^3$	1.5 $\mu g/m^3$
PM_{10} Annual Arithmetic Mean	50.0 $\mu g/m^3$	50.0 $\mu g/m^3$	50.0 $\mu g/m^3$
PM_{10} 24-Hour Average	150.0 $\mu g/m^3$	150.0 $\mu g/m^3$	150.0 $\mu g/m^3$
SO_2 Annual Arithmetic Average	0.03 ppm	No Standard	0.023 ppm
SO_2 24-Hour Average	0.14 ppm	No Standard	0.099 ppm
CO 1-Hour Average	35.0 ppm	No Standard	35.0 ppm
CO 8-Hour Average	9.0 ppm	No Standard	9.0 ppm
O_3 1-Hour Average	0.12 ppm	0.12 ppm	0.12 ppm
NO_2 Annual Arithmetic Mean	0.053 ppm	No Standard	0.053 ppm
H_2S 1-Hour Average	No Standard	No Standard	0.20 ppm
H_2S Annual Arithmetic Mean	No Standard	No Standard	10.0 ppm

[a]Source: 40 CFR; NDAC 33-15

Table 3-2. Air Pollutant Emissions (tpy) for 2001 at Grand Forks AFB.

Emissions	PM_{10}	NO_x	SO_x	CO	VOC	HAP
Actual Stationary Sources	1.4	29.8	1.4	12.7	18.8	2.2
Potential to Emit	33.3	422.0	31.6	132.0	77.0	6.6

Source: USAF 2002

Grand Forks AFB is in the Central Lowlands physiographic province and the Red River Valley physiographic subregion. The soils at Grand Forks AFB formed in glaciolacustrine deposits overlaying glacial till. The depth to underlying rock strata ranges from several hundred feet to more than 2,000 feet in Grand Forks County. There are six soil associations at Grand Forks AFB (Doolittle et al. 1981). Most of the soil associations are used extensively for cultivated crops; however, the Ojata association is generally unsuitable due to strong salinity. The project areas are within the Antler-Gilby-Svea and Glyndon-Gardena associations.The Antler-Gilby-Svea and Glyndon-Gardens soil associations comprise the greatest extent of soils on Grand Forks AFB and are deep, level to nearly level, somewhat poorly drained to moderately well drained, and medium textured soils. A seasonally high water table occurs throughout most of the region at depths

ranging from 2 to 6 feet below the surface. The soils in the proposed action project areas have been previously disturbed, although the proposed site for construction of the new fire station is currently undeveloped.

3.4 Water Resources

Grand Forks AFB is located in the 30,100-square-mile Red River Basin, of which 90 percent is used for agriculture. The Red River is approximately 16 miles east of Grand Forks AFB and drains nearly 28 percent of North Dakota. The Turtle River Watershed includes Grand Forks AFB and drains 311 square miles to the Red River. Groundwater in Grand Forks County occurs in unconsolidated glacial drift aquifers and in the underlying glacial deposits. The sewage treatment lagoons east of the main base represent the only surface water impoundments on Grand Forks AFB. The Red River Basin contains thousands of natural wetlands and prairie potholes; wetlands on Grand Forks AFB are primarily associated with drainages (Grand Forks AFB 2003). Potable water for Grand Forks AFB is obtained from the City of Grand Forks and Lake Agassiz Water Users Incorporated (Grand Forks AFB 2001b).

3.4.1 Groundwater

Grand Forks County has five major and several minor glacial drift aquifers. The Emerado Aquifer is a major glacial drift aquifer underlying Grand Forks AFB approximately 50 to 75 feet below ground surface; the remaining aquifers are from 5 to 15 miles from Grand Forks AFB. The recharge area for the major glacial drift aquifers is 10 to 20 square miles and 3 to 4 square miles for the minor aquifers. Water quality in the Emerado Aquifer is considered unsuitable for municipal use due to upward leakage of high-salinity from the underlying bedrock aquifers (North Dakota Geological Survey 1970).

3.4.2 Surface Water

The CWA (33 USC § 1251, et seq.) and National Pollutant Discharge Elimination System (NPDES) permit establish federal limits on discharge of pollutants to surface waters. Four main storm water ditches collect drainage from Grand Forks AFB and discharge eastward to Kellys Slough or northward to Turtle River under an approved NPDES permit. Kellys Slough is approximately 2 miles east of Grand Forks AFB. Surface water runoff in the project areas drains into the northwest ditch, which flows into Turtle River. The Turtle River originates approximately 10 miles west of Grand Forks AFB and its northeastward flow to the Red River

crosses the northwestern corner of the base. The NDDH designated the Turtle River as a Class II stream, suitable for municipal use, irrigation, fish production, boating, swimming, and other water-based recreation.

3.4.3 Wetlands and Floodplains

Section 404 of the CWA, EO 11990, and EO 11988 protect wetlands and floodplains from dredge and fill activities, direct and indirect impact to wetlands, and construction in floodplains. AFI 32-7064 provides guidance for no net loss of wetlands on USAF installations.

Approximately 24 acres of wetlands were delineated on Grand Forks AFB (Grand Forks AFB 2000). Most of the wetland polygons were less than one acre in size and the nearest wetland to the proposed action project areas is approximately 400 feet. Field observations at the proposed site for construction of a new fire station indicated the potential presence of three slight depressional wetlands (less than 0.5 acres total). However, these areas were not identified in the 2000 wetland delineation and thus may not meet the criteria for wetland parameters. Additionally, consultation with state and federal wetland regulators indicated that these areas would not be jurisdictional because they are less than 80 acres and isolated. The Federal Emergency Management Agency designated 250 feet on either side of the Turtle River, approximately 46 acres on Grand Forks AFB, as regulatory floodplains (Grand Forks AFB 2001b). There are no floodplains in the project areas.

3.5 Biological Resources

Grand Forks AFB is in the Bluestem Prairie region of the Northern Great Plains physiographic region (Grand Forks AFB 2003). This tallgrass prairie community originally covered eastern North Dakota southward to South Dakota and Nebraska. The physiographic region and land management practices have influenced the occurrence of vegetation, wildlife, and threatened and endangered species.

3.5.1 Vegetation

Prior to land acquisition for development of Grand Forks AFB in 1956 by the DoD, the land was intensively cultivated for agricultural production. Many of the unimproved areas remain in cultivation under agricultural outleases for hay and alfalfa (*Medicago sativa*). There are no known remnants of the tallgrass prairie on Grand Forks AFB. When the initial construction of

northeast of Grand Forks AFB) and Turtle Creek State Park (5 miles west of Grand Forks AFB). Nuisance wildlife species on Grand Forks AFB include Richardson's ground squirrel (*Spermophilus richardsonii*) and whitetail jackrabbit (*Lepus townsendi*). Review of the INRMP and field observations indicate that the project areas provide only minimal habitat for small mammals and birds.

3.5.3 Threatened and Endangered Species

The ESA (16 USC §§ 1531-1543, et seq.) requires federal agencies that authorize, fund, or conduct actions to avoid jeopardizing the continued existence of threatened or endangered species and to avoid destroying or adversely modifying their critical habitat. There are no federal or state threatened or endangered species known to occur on Grand Forks AFB. However, the migratory whooping crane (*Grus americana*) and the gray wolf (*Canis lupus*), federal endangered species, and the recently delisted peregrine falcon (*Falco peregrinus anatum*) have been sighted in Grand Forks County (Grand Forks AFB 2003). Potentially occurring threatened species include piping plover (*Charadrius melodus*) and bald eagle (*Haliaeetus leucocephalus*). There are no significant habitats for these species on Grand Forks AFB.

3.6 Cultural Resources

Cultural resources consist of prehistoric and historic districts, sites, structures, artifacts, or any other physical evidence of human activities considered important to a culture, subculture, or community for scientific, traditional, religious, or other reasons. Cultural resources can be divided into three major categories: archeological resources (prehistoric and historic), architectural resources, and traditional cultural resources. Archeological resources are locations and objects from past human activities. Architectural resources are those standing structures that are usually over 50 years of age and are of significant historic or aesthetic importance. In addition, some recent structures may warrant protection and study if they have potential historic significance. Traditional cultural resources may include archeological sites, buildings, prominent topographic features, objects, habitats, plants, animals, and minerals that hold importance or significance to Native Americans or other ethnic groups in the persistence of traditional culture.

The significance of such resources relative to the Native American Graves Protection and Repatriation Act and/or eligibility for inclusion in the National Register of Historic Places

(NRHP) is considered part of the EA process. The process generally relies on the regulations and procedures set forth in 36 CFR 800, which implements Sections 110 and 106 of the NHPA, as amended. Under Section 110 of the NHPA, federal agencies are required to identify all cultural resources within their landholdings that are eligible for inclusion in the NRHP. Section 106 requires federal agencies with jurisdiction over a federal or federally assisted or federally licensed undertaking to consider the effects of that undertaking on properties on, or eligible for inclusion in, the NRHP.

3.6.1 Archeological Resources

The 2003 ICRMP developed for Grand Forks AFB includes a synopsis of previous cultural resources surveys and architectural inventories conducted, and outlines and assigns responsibilities for the management and preservation of cultural resources at the base (AMC 2003). The ICRMP indicates that Grand Forks AFB has completed its inventory and identification of archeological resources under Section 110 of the NHPA and that no new inventory efforts are needed.

Two archeological surveys have been conducted at Grand Forks AFB. In 1989, a survey of 235 acres was conducted, identifying two archeological sites and three isolated finds (Artz 1989). In 1995-1996, an intensive (Class III) archeological survey was conducted of 740 acres of the base (AMC 1996a). Four sites and three isolated finds were identified. The four archeological sites were farmsteads dating from 1890 to 1955. One of the farmsteads contained a single prehistoric flake. The isolated finds consist of low density prehistoric and historic artifact locations. None of the six sites and six isolated finds was found eligible for the NRHP. A potential for deeply buried archeological sites has been identified within the terraces of the Turtle River west of the cantonment and proposed project area.

3.6.2 Historic Architectural Resources

Historic architectural surveys have been completed for Grand Forks AFB. One building under the jurisdiction of the AMC, Building 714, is eligible for inclusion on the NRHP for its association with the Cold War. The USAF determined that Buildings 306, 313, 606, 703, 704, 705, 706, and 707 were not eligible for listing on the NRHP (AMC 1996b). However, the State Historical Society of North Dakota (SHSND), which serves as the State Historic Preservation Office (SHPO), did not concur. Designation of these sites for management purposes is pending

agreement between the USAF and the SHSND, or pending a decision by the Keeper of the National Register (Table 3-3; AMC 2003). In response to a request from Grand Forks AFB, the SHSND concluded that the buildings (B530, B634, and B635) involved in the proposed action are not NRHP eligible (Appendix A).

3.6.3 Traditional Cultural Properties

Grand Forks AFB has not identified any Native American sacred sites or properties of traditional religious and cultural importance on the base. The base sent a letter to Native American groups in April 2003 requesting information on their traditional sites on Grand Forks AFB; no responses were received.

Table 3-3. National Register or Potentially Eligible Resources at Grand Forks AFB.

Building No.	Original Use	Year Built
306	SAGE Direction Center and Power Building	1957-58
313	Missile Training Facility	1965
606	Minuteman II/III Transfer Building, Hot Cargo Area	1965
703	Missile Storage Igloo, MB-1 Genie Compound	1957-59
704	Missile Storage Igloo, MB-1 Genie Compound	1957-59
705	Missile Storage Igloo, MB-1 Genie Compound	1957-59
706	Missile Storage Igloo, MB-1 Genie Compound	1957-59
707	Missile Storage Igloo, MB-1 Genie Compound	1957-59
714	SAC Surveillance and Inspection Shop	1958-59 and 1969-72

3.7 Land Use

Land use in the vicinity of Grand Forks AFB is defined in terms of commercial, residential, agricultural, and industrial uses. The City of Emerado is the only developed area in the immediate vicinity; the residential area is located 2 miles south of the main gate. The land use outside this locality is primarily agricultural. Development in Grand Forks County is reviewed by the Grand Forks County Planning and Zoning Commission to ensure conformity with the county's zoning and subdivision regulations and site design standards. Grand Forks AFB was established in 1956 as an Air Defense Command base. The primary mission is currently air refueling and the land use on Grand Forks AFB is dedicated to airfield operations and facilities

support. No land uses in the local vicinity are incompatible with the military mission at Grand Forks AFB (Grand Forks AFB 2001b). Implementation of the proposed action would not impact land use. Therefore, this resource area has been eliminated from further study in this EA.

3.8 Airspace/Airfield Operations

The FAA has primary jurisdiction over the management of airspace and airfield operations. The FAA defines airspace geographically through a public rulemaking process and classifies it based upon whether the FAA provides ATC separation within it or not. The FAA designates special use airspace when it removes a volume of airspace from the public domain, excluding other users and allocating it for the benefit of a particular category of user, such as the military. Implementation of the proposed action would not impact airspace/airfield operations at Grand Forks AFB. Therefore, this resource area has been eliminated from further study in this EA.

3.9 Noise

Federal agencies must comply with the Noise Control Act of 1972 (42 USC § 4901, et seq.), which establishes a policy to promote an environment free from noise harmful to the health and welfare of people. The range of ambient noise in the United States varies up to 50 decibels A-weighted (dBA) based on a number of different factors (USEPA 1974). Some of the factors are distance from major thoroughfares and airports, population density, and time of day. Noise is any unwanted sound that disrupts normal activities or otherwise reduces the quality of the environment. It ranges from the threshold of human hearing at 10 dBA to 80 dBA where most residents would be annoyed. Ground-generated noise attenuates approximately 6 dB for every doubling of distance from the noise source. There are no sensitive noise receptors (e.g., residential areas, hospitals, churches) within 4,000 feet of the project areas.

The primary source of noise on Grand Forks AFB is from fixed-wing aircraft operations. Other sources include vehicular traffic and construction activities. The number of daily aircraft operations directly affects the level of noise at Grand Forks AFB. The USAF developed the Air Installation Compatible Use Zone (AICUZ) Program (AFI 32-7063) to protect USAF installations from incompatible land use and to assist local, state, and federal officials in

protecting and promoting public health, safety, and welfare by providing information on aircraft accident potential and noise.

Noise contours from the AICUZ for Grand Forks AFB indicates that the project areas are in the 65 to 75 dBA sound level environment (USAF 1995). The range of sound levels for the types of equipment and activities expected for construction and demolition under the proposed action would be approximately 65 dBA at 400 feet from the source to 100 dBA at 25 feet (U.S. Army 1978).

3.10 Socioeconomics

Socioeconomic analyses generally include detailed investigations of the prevailing population, income, employment, and housing conditions of a community or area of interest. The ROI for this analysis is Grand Forks County, and the socioeconomic conditions in the ROI could be affected by changes in the rate of population growth, demographic characteristics, or employment. In addition to these characteristics, populations of special concern, as addressed by EO 12898, are identified and analyzed for environmental justice impacts. The local housing market, schools, community services, and infrastructure will not be evaluated because there are no personnel changes associated with the proposed action.

3.10.1 Population

Grand Forks AFB had a 3.2 percent decrease in population from the 1990 level to a population of 66,109 in 2000. The median age was 29.2 years. The City of Grand Forks had a 2000 census population of 49,321, which was a 0.5 percent decrease from the 1990 figures. The countywide population declined during this period primarily as a result of a major flood that occurred in 1997 in the City of Grand Forks. Grand Forks County had 10.3 percent of the total population in North Dakota; the state population grew by 0.5 percent between 1990 and 2000 (U.S. Census Bureau 2003). Approximately 1,213 individuals live on Grand Forks AFB in 1,489 family housing units and 649 dormitories provided for members and their families (Grand Forks AFB 2001a).

3.10.2 Income and Employment

Total personal income for 2001 in Grand Forks County was $1.69 billion and per capita income was $26,031, which was 89 percent of the per capita income in North Dakota (Bureau of

Economic Analysis [BEA] 2003). Grand Forks AFB is the third–largest employer in Grand Forks County with approximately 2,750 active duty military employees and 1,515 civilian employees in 2001, or approximately 9 percent of the total employment in Grand Forks County. The total annual payroll for Grand Forks AFB for 2001 was approximately $84 million, with other expenditures for supplies and services contributing another $87 million to the regional economy. Approximately 1,450 indirect jobs were created from the base presence with an estimated annual value of $39 million. The total contribution to the regional economy was $201 million, representing 12.6 percent of the total income in Grand Forks County (Grand Forks AFB 2001a).

In 2000, Grand Forks County had a labor force of 37,211 from a population 16 years and older of 52,229 (U.S. Census Bureau 2003). The civilian labor force was 34,958 (94 percent) and the armed forces labor force was 2,253 (6 percent). Management, professional, and related occupations; service occupations; and sales and office occupations accounted for 78 percent of the employed civilian population. Farming, fishing, and other occupations; construction, extraction, and maintenance occupations; and production, transportation, and material-moving occupations accounted for the remainder. Average monthly unemployment in Grand Forks County was 3.5 percent in January 2003 and 4.3 percent in January 2002 (North Dakota Job Service [NDJS] 2003). The unemployment rate for North Dakota was 3.5 percent in 2003 and 3.7 percent in 2002. The average unemployment rate for the United States was 5.7 percent in 2003 and 5.6 percent in 2002 (U.S. Census Bureau 2003).

3.11 Environmental Justice

In order to provide a thorough environmental justice evaluation, this EA gives particular attention to the distribution of race and poverty status in areas potentially impacted by implementation of the proposed action. The ROI for environmental justice evaluation is the same as for socioeconomic resources, Grand Forks County.

EO 12898 (Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, February 1994) requires each federal agency to "make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high human health or environmental effects of its programs, policies, and activities on minority populations and low income populations." According to the CEQ (1997),

a minority population can be described as being composed of the following population groups: American Indian or Alaskan Native, Asian or Pacific Islander, Black, not of Hispanic origin, or Hispanic, and exceeding 50 percent of the population in an area or the minority population percentage of the affected area is meaningfully greater than the minority population percentage in the general population.

The U.S. Census Bureau defines the national poverty thresholds, which are measured in terms of household income dependent upon the number of persons within the household. Individuals falling below the poverty threshold ($17,524 for a household of four in 2000) are considered low-income individuals. Census tracts where at least 20 percent of the residents are considered poor are known as poverty areas (U.S. Census Bureau 1995). When the percentage of residents considered poor is greater than 40 percent, the census tract becomes an extreme poverty area.

The 2000 census of Grand Forks County was 93 percent White, 2.3 percent Native American or Alaska Native, 1.4 percent Black or African-American, 1.0 percent Asian, and 2.3 percent other. Persons of Hispanic origin comprised 2.1 percent of the county population. These data were similar to the statewide data for 2000. Approximately 12.3 percent of individuals were below the poverty level; the statewide average for 2000 was 11.9 percent and 11.3 percent in the United States (U.S. Census Bureau 2003).

There are very few residences and no concentrations of low-income or minority populations near the boundaries of Grand Forks AFB (Grand Forks AFB 2001b). The project areas are approximately 4,000 feet from the housing areas on Grand Forks AFB.

3.12 Transportation

Traffic and circulation refer to the roadway system, including pedestrian walkways and sidewalks, which enable persons and goods to move about a given area. The primary concerns for the transportation resource pertain to the capacity and efficiency of the roadway access and circulation system. Because of the limited size and scale of the proposed action, the other modes of transportation, including rail or air, are not evaluated. Although the proposed action is adjacent to the airfield, aircraft operations would not be affected. The Hazardous Materials Transportation Act of 1975 (49 USC § 1761, et seq.) provides for the protection of public health from the risks of transporting hazardous materials (explosives, flammable liquids and solids,

combustible materials, corrosives, and compressed gases). The transportation of all hazardous materials used for the action must meet the requirements of this act.

The number of vehicles that can pass over a given section of roadway during a specified period generally measures roadway capacity. This capacity is usually considered in terms of levels of service, which represents different levels of congestion. It is a qualitative measure describing operational conditions within a traffic stream; it is described in terms of speed and travel time, freedom to maneuver, traffic interruptions, comfort and convenience, and safety.

The existing roadway systems in Grand Forks County provide ready access to Interstate 29 and the regional highway systems. The roadways in the immediate area adjacent to Grand Forks AFB are capable of accommodating the existing traffic (Grand Forks AFB 2001b). The traffic on base is characterized as slight except for rush hour in the morning and afternoon. There are two entrances to the base. The primary entrance is the main gate, which handles most off-base traffic and provides access to Steen Boulevard, the primary east-west roadway. The South Gate, a secondary entrance on the southern edge of the base used primarily for contractor access, connects U.S. Highway 2 to Eielson Street and is open 12 hours a day (Monday through Friday, 0600–1800). The project areas have direct access to Eielson Street for transportation.

Steen Boulevard acts as the center spine of the base roadway system. It begins at the main base entrance on County Highway B-3 and terminates at the air operations area. The second of four primary intersections along Steen Boulevard are for accessing family housing, the third intersection accesses Holzapple Street for commercial areas, and the fourth intersection accesses Eielson Street for flight line operations. Eielson Street is the longest single road at Grand Forks AFB, spanning the main base north to south, crossing Steen Boulevard. North Eielson Street provides access to the northern end of the flight line, while South Eielson Street is the connection to the southern end of the flight line area and the base industrial area (Grand Forks AFB 2001b).

3.13 Environmental Programs

The RCRA of 1976 (42 USC § 6901, et seq.) establishes the requirements for reduction, control, management, and disposal of solid and hazardous waste. The CERCLA of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) (42 USC § 9601, et seq.) provides for funding, enforcement, response, and liability for the release or threatened release of

hazardous substances into the environment. The Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 (42 USC § 11001, et seq.) provides requirements for emergency planning, including timely notification and response to a release of hazardous substances. The Occupational Safety and Health Act (OSHA) of 1970 (29 USC § 651, et seq.) provides regulations to protect the health and safety of employees in the workplace. AFI 32-7042, Solid and Hazardous Waste Compliance, provides guidance on compliance with RCRA and applicable federal, state, and local regulations. The IRP is designed to identify, confirm, quantify, and remediate suspected problems associated with past hazardous material disposal sites on military installations. The Defense Environmental Restoration Program (10 USC § 2701, et seq.) is the legal mandate for the IRP. AFI 32-7020, Environmental Restoration Program, provides guidance on compliance with CERCLA and federal, state, and local regulations. These laws and regulations represent the regulatory constraints for the proposed action.

The environmental office (319 CES/CEV) manages the environmental programs in accordance with all applicable federal, state, local, DoD, and USAF regulations, standards, and laws that apply to Grand Forks AFB.

3.13.1 Health and Safety

Health and safety issues relevant to the proposed action include explosive materials storage, construction jobsite safety, and worker occupational health and safety. The areas of concern for worker health and safety are the defined clear zones and the imaginary surfaces associated with airfield runways defined under 14 CFR 77 (Federal Aviation Regulations – Objects Affecting Navigable Airspace). Permissible uses, structure heights, and construction material in these areas are prescribed to protect both the safety of the aircrews and the safety of persons and property on the airfield. The project areas are not located in the east lateral transition surface of the FAA airspace clear zones.

3.13.2 Wastes, Hazardous Materials and Stored Fuels

Hazardous materials include, but are not limited to, hazardous substances, hazardous wastes, or any materials that pose a potential hazard to human health and safety or the environment due to their quantity, concentration, or physical and chemical properties. Hazardous wastes are products characterized by their ignitability, corrosiveness, reactivity, and toxicity. Hazardous waste includes any waste which, due to its quantity, concentration, or

physical/chemical/infectious characteristics, may either (1) cause or significantly contribute to an increase in mortality, serious irreversible illness, or incapacitating reversible illness; or (2) pose a substantial threat to human health or the environment.

Hazardous materials (e.g., petroleum fuels, flammable solvents, paints, corrosives, pesticides, cleaners) are used and managed through the hazardous materials pharmacy program (HAZMART). Grand Forks AFB is classified as a small quantity hazardous waste generator (greater than 100 kilograms (kg) but less than 1,000 kg per month). Grand Forks AFB does not maintain a permitted hazardous waste storage facility. All wastes are stored in containers and may be accumulated for up to 180 days at the central accumulation site located at Base Supply (Building 408). The Grand Forks AFB Hazardous Waste Management Plan (Plan 7042) assigns organizational responsibilities for the handling of hazardous waste (Grand Forks AFB 2001b).

Above ground and underground storage tanks are used for storage of fuel products at Grand Forks AFB. Two above ground storage tanks, with a total capacity of 840,000 gallons, supply jet fuel to the aircraft hydrant fuel system on the flight line. Additional hydrant fuel storage tanks have a combined capacity of 2.3 million gallons. A backup hydrant system has 8 underground storage tanks with a combined capacity of 800,000 gallons. Regulated underground storage tanks are included in a monthly Leak Detection Monitoring Program in compliance with the North Dakota Underground Storage Tank Program (Grand Forks AFB 2001b).

3.13.3 Storm Water and Wastewater Management

Industrial storm water discharges associated with industrial activity to waters of the United States must be authorized by an NPDES permit (CWA § 402). Grand Forks AFB discharges storm water directly into Turtle River and Kellys Slough under an approved permit from the NDDH. The 319 Bioenvironmental Engineering Flight samples the storm water outfalls monthly during the months that aircraft are de-iced. Construction projects that disturb 1.0 or more acres are required to obtain a construction permit from the NDDH and use BMPs to control erosion and sedimentation. A storm water construction permit would be required since the proposed construction and demolition activities would disturb approximately 5 acres.

3.13.4 Solid Waste Management

Grand Forks AFB has a mandatory recycling program to facilitate management of non-hazardous solid waste from military family housing, dormitories, industrial shops, offices, tenants, and

Grand Forks AFB. ACM does not present a significant constraint to development or redevelopment (Grand Forks AFB 2001b).

Asbestos is a designated HAP under the CAA. Regulations to ensure compliance with the CAA are contained in the North Dakota Air Pollution Control Rules. The regulations are enforced by the NDDH Air Quality Division. The OSHA Asbestos Standard (29 CFR § 1926.58) also provides worker protection guidelines for employees who work around or remediate ACM. Friable ACM refers to any material containing more than one percent asbestos that can be crumbled, pulverized, or reduced to powder when dry, by using hand pressure or similar mechanical pressure.

Federal and state regulations require that all affected parts of a facility being renovated or demolished must be inspected by a state-certified inspector for the presence of ACM prior to beginning a renovation or demolition project. All RACM that will be disturbed as part of a renovation or demolition activity must be properly removed by state-certified individuals and properly disposed of in an approved landfill. RACM includes all friable ACM, as well as nonfriable ACM that would be made friable during the project. A Notification of Demolition and Renovation Form must be submitted to the NDDH 10 days prior to beginning any demolition activity, whether or not asbestos is present.

3.13.7 Lead-based Paint

A LBP survey was conducted in 1994 in target housing and child-occupied facilities. This survey consisted of visual inspections to identify paint condition as well as actual chemical analyses of paint samples. A Lead-Based Paint Management Plan was also written in 1994 (Grand Forks AFB 2001b).

AFI 91-301 states that workers subjected to prolonged or repeated exposure to airborne LBP dust are working in a hazardous environment. OSHA standards (29 CFR § 1926.62) for lead in the construction industry state that all painted surfaces in which any detectable level of lead is present must be considered as having the potential to present an occupational exposure to lead to an employee engaged in OSHA-regulated construction work. Grand Forks AFB assumes the presence of LBP in any building constructed before 1978, which includes the old fire station and ATC tower. As a policy, contractors are advised of the presence of LBP or the potential for LBP and are responsible for safeguarding their employees according to OSHA requirements.

Buildings being demolished typically do not require LBP abatement, unless the LBP would be disturbed by sanding, scraping, dry-cutting, or torching.

4.0 ENVIRONMENTAL CONSEQUENCES

4.1 Introduction

This section presents the potential environmental consequences of implementing the proposed action and no action alternative. The potential impacts to the human and natural environment were evaluated relative to the existing environment described in Section 3.0. For each environmental resource or issue, anticipated direct and indirect effects were assessed, considering both short- and long-term project effects. Only temporary and minor impacts would be expected from implementing the proposed action. Potential impacts were evaluated using three months for demolition activities and six months for construction activities.

4.2 Air Quality

Air quality at Grand Forks AFB would be impacted if the construction and demolition activities resulted in an exceedance of the NAAQS or NDAAQS, exceedance of non-attainment criteria, or the exposure of sensitive receptors to increased pollutant concentrations.

4.2.1 Proposed Action

Implementation of the proposed action would have temporary, minor impacts on air quality, which would return to preconstruction levels at the completion of construction and demolition activities (Table 4-1). Although an applicability analysis is not required for implementing the proposed action since it is located in an attainment area, the potential air emissions of criteria pollutants from all sources would be much less than the *de minimis* exemption levels for conformity determinations in attainment/maintenance areas specified in 40 CFR § 93.153(b)(2). In addition, the effects would fall off rapidly with distance from the proposed construction sites.

Fugitive dust from ground-disturbing activities, combustive emissions from construction equipment, and emissions from asphalt paving operations would be generated during construction and demolition activities. Fugitive dust would be generated from activities associated with site clearing, grading, demolition activities, and from vehicular traffic used in the operations. These emissions would be greatest during initial site preparation activities and would vary from day to day depending on the construction phase, level of activity, and prevailing weather conditions.

Table 4-1. Estimated Annual Emissions (tpy) for the Proposed Action.

	Pollutant				
Emission Source	**CO**	**VOC**	**NO_x**	**SO_x**	**PM_{10}**
Grading	0	0	0	0	0.07
Demolition	0	0	0	0	0.03
Trucks (pavement)	0	0	0	0	6.91
Trucks (unpaved)	0	0	0	0	5.52
Equipment	2.86	0.47	6.38	0.64	0.52
Vehicles	0.75	0.05	0.05	0.00	0.00
Total	3.61	0.52	6.43	0.64	13.04

The average PM_{10} to total suspended particulates (TSP) ratios for topsoil removal, aggregate hauling, and cut-and-fill operations were used to calculate fugitive dust emissions from demolition activities. The emission factor per square foot of demolished floor area is based on air sampling data taken from the demolition of a mix of commercial brick, concrete, and steel buildings (USEPA 1988). The USEPA estimates that the effects of fugitive dust from construction activities would be reduced significantly with an effective watering program (USEPA 1995), which is part of the environmental controls specified in the proposed action.

Combustive emissions for equipment exhausts were estimated from EPA-approved emissions factors for heavy-duty diesel-powered construction equipment (USEPA 1985). Construction and demolition equipment would include bulldozers, dump trucks, backhoe/loaders, asphalt pavement rollers, cranes, water trucks, and flatbed trucks. The heavy construction equipment would generate CO and NO_x emissions as the main constituents of exhaust. These emissions would be short-term, especially considering dispersal of emissions from the prevailing winds in the area (Grand Forks AFB 2003). There would be no long-term negative impacts to air quality.

4.2.2 No Action Alternative

The baseline conditions would continue at Grand Forks AFB as described in Section 3.2. Since there would be no construction or demolition activities under this alternative, there would be no change to the ambient air quality in the region.

4.3 Environmental Management – Pollution Prevention and Geology and Soils

Resources at Grand Forks AFB would be impacted if the construction and demolition activities resulted in changes to the pollution prevention programs at Grand Forks AFB, changed the geology in the area, or resulted in severe soil loss such that the area could no longer maintain the existing land use. Excavation and grading activities would directly impact soils; however, use of BMPs would minimize effects on soils. Approximately 5 acres would be disturbed in completing the construction and demolition activities.

4.3.1 Proposed Action

Implementation of the proposed action would not result in long-term adverse impacts to pollution prevention programs at grand Forks AFB, geology in the area, or soils. Implementing this alternative would not accelerate the rate of erosion or degrade soil characteristics on Grand Forks AFB. The soils in the project areas have been previously disturbed by development for facilities and cropland. The footprints of the demolished buildings and new construction would total approximately 1.5 acres. Stockpiled soils would be protected from wind and water erosion by following an approved erosion and sediment control plan. No long-term impacts would be expected following grading and revegetation in the project areas.

4.3.2 No Action Alternative

The baseline conditions would continue at Grand Forks AFB as described in Section 3.3. Since no construction or demolition activities would occur under this alternative, there would be no change to the environmental management resources in the region.

4.4 Water Resources

Water resources at Grand Forks AFB would be impacted if the construction and demolition activities resulted in a change to the groundwater or surface water quantity or quality. Impacts would include any increase or decrease of the groundwater recharge area and storm water runoff because of implementing the proposed action.

4.4.1 Proposed Action

Implementing the proposed action would not result in long-term impacts to water resources at the project area or Grand Forks AFB. Short-term impacts to water resources would be avoided or minimized through implementation of BMPs (i.e., erosion control measures) as part of the

proposed action. There would be no change to surface water features in the project areas. The potential loss of non-jurisdictional wetlands in the proposed project site for construction of a new fire station would be negligible because the probability is low that the slight depressional areas would meet the criteria for wetland parameters. The revegetation of the old fire station and ATC tower sites after demolition, and construction of new facilities would result in a negligible net change to impervious surfaces on Grand Forks AFB. Consequently, the change in storm water runoff and groundwater recharge area would be negligible as a result of implementing the proposed action. The excavation required for construction and demolition activities could intercept the seasonal high water table, but would not impact the underlying Emerado Aquifer. No wetlands exist in the project areas; therefore, their value for protection of water quality would not be impacted. Short-term negative impacts to surface water resources could result from erosion and sedimentation during construction and demolition activities. However, implementation of temporary environmental controls and development of an environmental protection plan specified as part of the proposed action prior to initiating activities would be the primary means to protect surface water during construction and demolition activities. Any planned discharges to storm water drainage ditches would be conducted in accordance with the NPDES permit for Grand Forks AFB.

4.4.2 No Action Alternative

The baseline conditions would continue at Grand Forks AFB as described in Section 3.4. Since there would be no construction or demolition activities occurring under this alternative, there would be no change to the water resources in the region.

4.5 Biological Resources

Biological resources at Grand Forks AFB would be impacted if implementation of the proposed action resulted in a change to vegetation communities or wildlife, including threatened or endangered species, in the area. Changes that reduce the viability of native vegetation in the area or eliminate viable wildlife populations would be considered significant.

4.5.1 Proposed Action

Implementing the proposed action would not result in long-term impacts to biological resources located at the project areas or Grand Forks AFB. Construction and demolition of facilities under the proposed action would require vegetation removal within previously disturbed areas. The

limit of disturbance for the project areas would be confined to the actual footprint of the buildings and the immediate surrounding area. The cleared sites would be revegetated to match the surrounding landscape (mostly turf grass and street trees) after demolition activities. Natural or regionally significant plant communities do not occur in the project areas and thus would not be impacted by the proposed action. Consequently, the impact on native vegetation would be negligible. The long history (almost 50 years) of maintaining turf grass in the airfield operations area has resulted in minimal ecological value of biological resources present in the project areas. Construction of a new fire station could result in minor loss of non-jurisdictional wetlands. Construction and demolition activities would temporarily displace wildlife from the immediate vicinity of the project areas, which contains poor quality wildlife habitat, to nearby and more suitable habitats. However, the short-term impacts would be minimal and long-term impacts to wildlife would not occur. Since no rare, threatened, or endangered species occur in the project area, there would be no impacts to these resources.

4.5.2 No Action Alternative

The baseline conditions would continue at Grand Forks AFB as described in Section 3.5. Implementing the no action alternative would not result in any impacts to biological resources since no construction or demolition activities would occur.

4.6 Cultural Resources

Potential impacts to cultural resources at Grand Forks AFB could occur if construction and demolition activities for the proposed action resulted in disturbance to presently unknown significant archeological deposits.

4.6.1 Proposed Action

Implementing the proposed action would not result in impacts to cultural resources located on or adjacent to the project area since there are no known NRHP-eligible or potentially eligible sites and appropriate measures would be in place in the event of a discovery of previously unrecorded sites. Earth-moving activities related to construction could impact the integrity of an archeological site, expose a previously unrecorded site, or impact unmarked prehistoric or historic burials. In the event that human remains or archeological materials are inadvertently found, work in the area of the find would stop, and the individual responsible for implementing the work (e.g., the noncommissioned officer in charge [NCOIC] or job foreman) will notify the

cultural resources manager immediately. The cultural resources manager would follow the procedures outlined in Section 5.7 of the ICRMP (AMC 2003).

Neither of the two buildings proposed for demolition under the proposed action, Fire Station (Building 530) and ATC tower (Building 634), are considered eligible or potentially eligible for listing on the NRHP. Therefore, the proposed action would not impact any buildings or structures eligible or potentially eligible for listing on the NRHP.

Grand Forks AFB has not identified any Native American sacred sites or properties of traditional religious and cultural importance on the base. The base sent a letter to Native American groups in April 2003 requesting information on their traditional sites on Grand Forks AFB; no responses were received.

4.6.2 No Action Alternative

The no action alternative would result in no change to archeological, architectural, or traditional cultural resources, known and unknown, at Grand Forks AFB since no construction or demolition activities would occur. Cultural resources would remain as described in Section 3.6.

4.7 Noise

An increase in noise exposure levels to 73 dB (24-hour average sound level) and above for one year (level that could cause hearing loss in a portion of the general public) would be considered a significant impact (U.S. Army 1978). There are no sensitive noise receptors (e.g., residential areas, hospitals, churches) within 4,000 feet of the project areas. Therefore, no impact to sensitive receptors would be expected as a result of implementing the proposed action.

4.7.1 Proposed Action

Implementing the proposed action would not result in long-term impacts from noise. Short-term impacts associated with construction and demolition activities would minor, temporary, and cease at the completion of these activities. Noise associated with the proposed action would be temporary and site specific. The noise from demolition activities would be intermittent over approximately three months and over a 6-month period for construction activities. Construction and demolition activities would occur during daylight hours when occasional loud noises are more tolerable. Provisions would be included in the plans and specifications that require the contractor to make every reasonable effort to minimize construction and demolition noise

through abatement measures such as work-hour controls and proper maintenance of muffler systems.

An analysis of noise from dump trucks, graders, backhoes, bulldozers, rollers, and other heavy trucks that would be used in the construction and demolition activities indicated that the outdoor sound level for all equipment would be approximately 66 dBA at 400 feet from a composite point source (Harris 1998). Indoor sound levels would be approximately 20 dBA less. These levels would not result in short-term noise impacts from implementation of the proposed action. Upon completion of the construction and demolition activities, the noise exposure would return to existing levels, which are dominated by aircraft operations. Therefore, no long-term or major impact to the noise environment would occur from implementing the proposed action.

4.7.2 No Action Alternative

The baseline conditions would continue at Grand Forks AFB as described in Section 3.7. Implementing the no action alternative would not result in impact from noise since no construction or demolition activities would occur.

4.8 Socioeconomics

Socioeconomic resources would be impacted if implementation of the proposed action resulted in a change to the population, employment, or income potential of Grand Forks AFB and the ROI.

4.8.1 Proposed Action

Implementing the proposed action would not result in impacts to the socioeconomic conditions of the ROI. The proposed action would not involve relocation of personnel to the ROI; therefore, no change to the population would be expected. The economic benefits would be local and short-term (3 months for demolition and 6 months for construction). The proposed action would not create permanent employment positions or reduce the current employment opportunities at Grand Forks AFB and the ROI; therefore, there would be no long-term changes to employment and income potential in the ROI. The unemployment rate in the ROI is low (3.5 percent) and would not be impacted by the small increase in short-term employment opportunities provided by the proposed action. The demolition of existing buildings and construction of new facilities on Grand Forks AFB would cost approximately $14.8 million.

This amount represents approximately 7 percent of the annual economic impact of Grand Forks AFB on the local area (Grand Forks AFB 2001b). Thus there would be a small, positive impact (less than 1 percent) to the total personal income in the ROI.

4.8.2 No Action Alternative

The baseline conditions would continue at Grand Forks AFB as described in Section 3.8. Implementing the no action alternative would not result in socioeconomic impacts since no construction or demolition activities would occur.

4.9 Environmental Justice

Environmental justice impacts would be considered if minority and/or low-income populations within or adjacent to the project area would feel disproportionate adverse effects from implementing the proposed action or alternatives.

4.9.1 Proposed Action

Implementing the proposed action would not result in environmental justice impacts since there are no low-income or minority populations within or immediately adjacent to the project area and since there would be no other long-term impacts associated with implementing the proposed action.

4.9.2 No Action Alternative

The baseline conditions would continue at Grand Forks AFB as described in Section 3.9. Implementing the no action alternative would not result in environmental justice impacts since no construction or demolition activities would occur.

4.10 Transportation

An impact to traffic and circulation would occur if implementation of the proposed action resulted in a change to the speed and travel time, freedom to maneuver, traffic interruptions, comfort and convenience, and transportation safety at Grand Forks AFB.

4.10.1 Proposed Action

Implementing the proposed action would not result in long-term impacts to the transportation networks at Grand Forks AFB. Short-term impacts from implementing the proposed action could include increased traffic movement through the South Gate for the duration of construction

and demolition activities. The movement of equipment and vehicles for construction and demolition activities would result in short-term impacts to traffic and circulation during peak hours at Grand Forks AFB. However, the construction and demolition traffic would enter and exit Grand Forks AFB from the South Gate, which is used primarily for contractor access. Short-term congestion resulting from construction and demolition vehicle traffic would be minor.

The project areas are adjacent to Eielson Street, which provides direct access to the South Gate. This direct route for construction and demolition vehicles and distribution of traffic over a 9-month period would minimize any potential impact on transportation at Grand Forks AFB. In addition, the route to the landfill is direct along U.S. Highway 2 and is outside the City of Grand Forks. Minimal impacts to transportation in the local area would be expected.

4.10.2 No Action Alternative

The baseline conditions would continue at Grand Forks AFB as described in Section 4.10. Implementing the no action alternative would not result in impacts to transportation networks since no construction or demolition activities would occur.

4.11 Environmental Programs

Environmental programs at Grand Forks AFB would be impacted if implementation of the proposed action resulted in a change to health and safety, hazardous materials and waste management, stored fuels, storm water and wastewater management, solid waste management, IRP, ACM abatement, and LBP abatement.

4.11.1 Proposed Action

Implementation of the proposed action would result in long-term benefits to personnel health and safety by improving the living and working conditions for firefighters and ATC controllers in the new facilities. Short-term impacts to worker health and safety during construction and demolition activities would be minimized by implementing the environmental controls specified as part of the proposed action.

Under the proposed action, there would be a temporary increase in the use of hazardous materials (e.g., paints, solvents) and the amount of waste (e.g., vehicle refueling and maintenance spills) generated. However, these impacts would be minimized through HAZMART and by following the Grand Forks AFB Hazardous Waste Management Plan. Implementation of the proposed

action would not impact stored fuels on Grand Forks AFB. The proposed action would not generate additional requirements for storm water and wastewater management at Grand Forks AFB; potential impacts would be minimized by following an approved NDDH construction permit. The construction and demolition activities would temporarily increase the amount of solid waste generated by the base. In accordance with the Qualified Recycling Program (Grand Forks AFB 2001b), construction and demolition debris would be disposed of at the Grand Forks Municipal Landfill. Coordination with the 319 CES IRP manager would ensure that implementing the proposed action would not disturb IRP Site FT-02, which is adjacent to the proposed location for the new fire station. The Grand Forks AFB Corrective Action Plan indicated that groundwater in the area drains northward (away from the new fire station) and surface water runoff from the IRP site is uncontaminated. ACM and LBP abatement in the old fire station and ATC tower would be conducted as necessary in accordance with regulatory guidelines to ensure worker health and safety. These actions would provide long-term benefits for health and safety to personnel at Grand Forks AFB.

4.11.2 No Action Alternative

The baseline conditions would continue at Grand Forks AFB. Under the no action alternative, there would be no change to environmental programs.

4.12 Relationships Between Short-Term Uses of the Environment and Long-Term Productivity

Short-term effects would be those associated with the demolition and construction activities to improve the facilities at Grand Forks AFB. Implementation of the proposed action would not sacrifice long-term productivity of the environment for short-term uses. The long-term enhancement of productivity would be those effects associated with operation and maintenance of the facilities after implementation of the proposed action. The project areas are located in previously disturbed areas and do not include valuable resources such as prime cropland or wetlands. Consequently, there would not be a loss in long-term productivity of the environment.

4.13 Irreversible and Irretrievable Commitment of Resources

An irreversible effect would result from the use or destruction of resources (e.g., energy) that cannot be replaced within a reasonable time. An irretrievable effect would result from loss of resources (e.g., endangered species) that cannot be restored as a result of the proposed action.

Use of fill material and other construction materials and loss of vegetation for implementation of the proposed action would represent an irreversible commitment of resources since the new facilities would be expected to remain useful for many years. Use of fuel for operation of construction and demolition equipment represents another irreversible commitment of resources in the proposed action. The amount of fuel used for activities during the short-term construction and demolition period would represent a negligible amount compared to the amount of fuel used daily for operation of Grand Forks AFB. Other resource commitments would be neither irreversible nor irretrievable.

5.0 CUMULATIVE IMPACTS

This section provides: (1) a definition of cumulative effects, (2) a description of past, present, and reasonably foreseeable future actions relevant to cumulative effects analysis, (3) an assessment of the nature of interaction of the proposed action with other actions, and (4) a summary and evaluation of cumulative effects potentially resulting from these interactions.

5.1 Definition of Cumulative Impacts

The CEQ regulations stipulate that the cumulative effects analysis within an EA should consider the potential environmental impacts resulting from "the incremental impacts of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes such other actions" (40 CFR § 1508.7). The scope must consider geographic and temporal overlaps among the proposed action and other actions. It must also evaluate the nature of interactions among these actions.

5.2 Past, Present, and Reasonably Foreseeable Future Actions

Demolition and consolidation of the SAGE Building (306) is the most recent action similar to the proposed construction of a new fire station/ATC tower/RAPCON and demolition of the old fire station and control tower. The Master Space Plan described in the 2001 General Plan for Grand Forks AFB was developed to guide development for the next 15 to 20 years. Substandard facilities will be demolished and replaced with new construction that meets AMC standards.

5.3 Analysis of Cumulative Impacts

Cumulative effects are likely to arise when a relationship or synergism exists between a proposed action and other actions expected to occur in a similar location or during a similar time period. Actions overlapping with or in proximity to the proposed action would be expected to have more potential for a relationship than those more geographically separated. Similarly, actions that coincide, even partially, in time would tend to offer a higher potential for cumulative effects.

To identify cumulative effects, the analysis needs to address three fundamental questions:

- Does a relationship exist such that affected resource areas of the proposed action might interact with the affected resource areas of past, present, or reasonably foreseeable future actions?

- If one or more of the affected resource areas of the proposed action and another action could be expected to interact, would the proposed action affect or be affected by impacts of the other action?
- If such a relationship exists, then does an assessment reveal any potentially significant impacts not identified when the proposed action is considered alone?

The scope of the cumulative effects analysis involves both the geographic extent of the effects and the time frame in which the effects could be expected to occur. Actions occurring within or adjacent to the region are considered relevant for cumulative effects analysis. Public documents prepared by federal, state, and local government agencies form the primary sources of information regarding reasonably foreseeable future actions. Documents used to identify other actions include notices of intent for an EIS or EA, management plans, land use plans, other NEPA studies, and economic and demographic projections.

5.4 Summary of Cumulative Effects

The potential impacts to issues and resource areas of interest in this EA are short-term and minor. No resources were found to have a long-term effect resulting from implementation of the proposed action, except benefits to health and safety. The incremental contribution of impacts of the proposed action, when considered in combination with other past, present, and reasonably foreseeable future actions, would be negligible. The proposed action would likely be concurrent with capital improvement projects specified in the 2001 General Plan that would be assessed in separate NEPA documents as necessary. Overall, the analysis for this EA indicates that the proposed action for construction projects would not result in, or contribute to, significant negative cumulative impacts to the resources in the region.

Planned improvements to infrastructure and facilities are included in the 5-year plan in accordance with the master space plan for Grand Forks AFB (Grand Forks AFB 2001b). Potential impacts to resources from implementation of projects in the 5-year plan, including demolition and construction activities, would be similar to the proposed action in this EA and would revert to baseline conditions after completion of the individual projects. The USAF land use planning process is designed to ensure efficient use of available resources and that the functional relationships of land use arrangements meet the goals and objectives of the base. Limited growth is anticipated at Grand Forks AFB. No major mission changes or population fluctuations are anticipated in the foreseeable future (Grand Forks AFB 2001b).

6.0 REFERENCES

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7.0 PERSONS AND AGENCIES CONTACTED

The Description of the Proposed Action and Alternatives (Sections 1 and 2 of the EA) for the action was sent to the NDDH and SHSND to request their review in accordance with the EO on Intergovernmental Review of Federal Programs. Scoping letters and the Draft EA were sent to the following agencies to identify resources that may be impacted by the action.

Mr. Merlan E. Paaverud, Jr.
State Historic Preservation Officer
State Historical Society of North Dakota
612 East Boulevard Avenue
Bismarck, ND 58505-0200

Mr. L. David Glatt
Chief, Environmental Health Section
North Dakota Department of Health
600 East Boulevard Avenue
Bismarck, ND 58505-0200

GFAFB sent coordination letters to six tribal councils requesting comments on any sacred or culturally sensitive sites on the base; no comments were received. Additional information was obtained from personnel at Grand Forks AFB. The following personnel were consulted.

Steve Zhorela, Planning
Sharon E. Brennan, Real Property
Heidi Durako, Natural and Cultural Resources Manager
Wayne Koop, Flight Chief
Carl Wilkes, Fire Chief
Chris Klaus, Water Quality
Stephen Braun, ACM/LBP/UST
Heidi Nelson, Community Planner
Scott Bassingthwaite, GIS
Larry Olderbak, IRP

The notice of availability for the FONSI was published in the *Grand Forks Herald* on 17, 19, 22 July 2003. No comments were received from the public during the 30-day review period.

8.0 LIST OF PREPARERS

Name	Experience	Role
Joseph Campo Geo-Marine, Inc.	Ph.D., 20 years of natural resources management	Project Manager, Description of the Proposed action and Alternatives
Sandra Brinson Geo-Marine, Inc.	B.S., 15 years of natural resources management and RCRA/CERCLA	Affected Environment and Environmental Consequences sections
Ron Moore Geo-Marine, Inc.	B.A., 18 years of NEPA preparation and review	Technical Review
Troy Anderson Geo-Marine, Inc.	B.A., 3 years of natural resources	Air and Noise sections
Tim Sara Geo-Marine, Inc.	M.A. 16 years of cultural resources management	Cultural Resources sections

APPENDIX A

USAF Form 813, DD Form 1391, Regulatory Coordination Letters, Tribal Consultation Letters

REQUEST FOR ENVIRONMENTAL IMPACT ANALYSIS

Report Control Symbol
RCS: 03-012

INSTRUCTIONS: *Section I to be completed by Proponent; Sections II and III to be completed by Environmental Planning Function. Continue on separate sheets as necessary. Reference appropriate item number(s).*

SECTION I - PROPONENT INFORMATION

1. TO *(Environmental Planning Function)*	2. FROM *(Proponent organization and functional address symbol)*	2a. TELEPHONE NO.
319 CES/CEVA	319 CES/CD	7-4761

3. TITLE OF PROPOSED ACTION
Fire Station/Control Tower/RAPCON (JFSD 990072)

4. PURPOSE AND NEED FOR ACTION *(Identify decision to be made and need date)*
See Attached.

5. DESCRIPTION OF PROPOSED ACTION AND ALTERNATIVES *(DOPAA) (Provide sufficient details for evaluation of the total action.)*
See Attached.

6. PROPONENT APPROVAL *(Name and Grade)*	6a. SIGNATURE	6b. DATE
MARY C. GILTNER, GM-13, DAFC Base Deputy Civil Engineer	Mary C Giltner	1-6-03

SECTION II - PRELIMINARY ENVIRONMENTAL SURVEY

(Check appropriate box and describe potential environmental effects including cumulative effects.) (+ = positive effect; 0 = no effect; - = adverse effect; U = unknown effect)

	+	0	-	U
7. AIR INSTALLATION COMPATIBLE USE ZONE/LAND USE *(Noise, accident potential, encroachment, etc.)*		X		
8. AIR QUALITY *(Emissions, attainment status, state implementation plan, etc.)*			X	
9. WATER RESOURCES *(Quality, quantity, source, etc.)*			X	
10. SAFETY AND OCCUPATIONAL HEALTH *(Asbestos/radiation/chemical exposure, explosives safety quantity-distance, bird/wildlife aircraft hazard, etc.)*		X		
11. HAZARDOUS MATERIALS/WASTE *(Use/storage/generation, solid waste, etc.)*			X	
12. BIOLOGICAL RESOURCES *(Wetlands/floodplains, threatened or endangered species, etc.)*		X		
13. CULTURAL RESOURCES *(Native American burial sites, archaeological, historical, etc.)*		X		
14. GEOLOGY AND SOILS *(Topography, minerals, geothermal, Installation Restoration Program, seismicity, etc.)*		X		
15. SOCIOECONOMIC *(Employment/population projections, school and local fiscal impacts, etc.)*	X			
16. OTHER *(Potential impacts not addressed above.)*				

SECTION III - ENVIRONMENTAL ANALYSIS DETERMINATION

17.
- [ ] PROPOSED ACTION QUALIFIES FOR CATEGORICAL EXCLUSION (CATEX) # _____ ; OR
- [X] PROPOSED ACTION DOES NOT QUALIFY FOR A CATEX; FURTHER ENVIRONMENTAL ANALYSIS IS REQUIRED.

18. REMARKS
This action is not "regionally significant" and does not require a conformity determination in accordance with 40 CFR 93.153(1). The total emission of criteria pollutants from the proposed action are below the de minimus thresholds and less than 10 percent of the Air Quality Region's planning inventory.

19. ENVIRONMENTAL PLANNING FUNCTION CERTIFICATION *(Name and Grade)*	19a. SIGNATURE	19b. DATE
WAYNE A. KOOP, R.E.M., GM-13 Environmental Management Flight Chief	Wayne A Koop	7 Jan 03

Block 4: Purpose and Need For Action

Purpose: Fire Station/Control Tower/RAPCON

Need for Action: The 1957-vintage main crash/fire rescue facility is severely undersized, has an unsafe, inefficient maze layout, inadequate vehicles-stall clearances, and does not meet current codes for life safety and standards of living. Building systems including HVAC are obsolete, difficult to maintain, and inefficient. The fire station lacks adequate maintenance space; hoses must be laid out in office areas for drying in the winter. The main station does not meet airfield response time requirements. Although a satellite station fills the gap in response timing, it is small and cramped, and the inefficiency of separated operations defeats its purpose of effective fire protection for the base.

The 30-year-old air traffic control tower is severely undersized; a third the size of most Air Force (AF) tower cabs, does not meet current AF or Federal Aviation Administration (FAA) standards, and is the oldest standing tower in Air Mobility Command. Much-needed upgrades to air traffic control systems cannot be incorporated into the antiquated tower cab. Current operations tempo requirement for additional controllers and recent equipment additions have rendered the cab space unsuitable for day-to-day operations. Furthermore, the present tower has "high maintenance", "difficult to maintain", and "outdated" mechanical and electrical components and equipment that routinely break down and directly impact quality of air traffic control service, as well as controller work load. The tower cab windows, despite attempted repairs, continually leak during heavy rainstorms.

The existing radar approach control facility (RAPCON) is outdated and inefficient because of its separation from the control tower. Supervisory personnel and controllers have to move between buildings, including exposure to the extreme winter conditions, to perform routine daily duties and upgrade training.

Block 5: Description of Proposed Action and Alternatives

Proposed Action: Under this alternative, Grand Forks AFB would construct a consolidated crash/structural fire station to house fire protection vehicles, equipment, personnel, alarm center, all support areas. Grand Forks AFB would also construct collocated control tower/RAPCON. Project would include sloped standing seam metal roofs, underground utilities and communications infrastructure, pavements, access roads, site improvements, AT/FP physical security. The old fire station (building 530) and control tower (building 634) would be demolished.

A modern, efficient fire station required to house all authorized airfield and base fire fighting vehicles, drive-through stalls, personnel, alarm center, training, administration, storage, fire hose tower. The location would be on the flightline and centrally located to meet airfield response times. Sleeping areas would not discharge directly into vehicle stalls, adequate shower and lavatory facilities required for male and female fire fighters, and suitable living space for cooking, dining, relaxing, and physical fitness. Properly sized air traffic control tower required to meet AF and FAA standards for safety, effectiveness, efficiency, and uncompromised control of flying traffic. A new radar approach control facility with upgraded equipment, expanded training area, and traffic controller simulator is required to improve flight safety, training, and retention and morale of controllers. RAPCON would be collocated with tower to improve operational and facility efficiencies.

Alternative 2 (Alternate Location): This alternative would construct the fire station in an alternative location north of the proposed action. See attached sitings. An alternative location for the control tower and RAPCON would be in the general vicinity of the existing Control Tower Facility.

Alternative 3 (No Action Alternative): This alternative would leave the fire station, control tower, and RAPCON as is. Adequate fire protection for Air Force aircraft and facilities would not be provided. Fire Fighter response would continue to be hindered by an improperly located, unsafe, inefficient fire station. Obsolete, cramped facilities would continue to adversely impact morale and retention of military and civilian fire fighters. The substandard air traffic control tower would continue to deteriorate further below AF and FAA standards, causing major safety concerns for both aircrews and air traffic controllers at Grand Forks AFB. Air traffic control personnel would face increased challenges trying to keep their systems operational, and facility inefficiencies would continue to adversely impact job performance, training, and morale.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	FIRE STATION/CONTROL TOWER/RAPCON

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	730-162	JFSD390072	14,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
FIRE STATION/CONTROL TOWER/RAPCON	LS			8,830
FIRE STATION	SM	2,820	1,434	(4,043)
CONTROL TOWER	SM	800	3,428	(2,742)
RAPCON	SM	575	2,223	(1,278)
AT/FP PHYSICAL SECURITY MEASURES	SM	4,195	183	(767)
SUPPORTING FACILITIES				4,480
COMMUNICATIONS	LS			(344)
FIRE STATION PAVEMENTS/ROAD	LS			(745)
FIRE STATION UTILITIES/SITE IMPROVE	LS			(804)
RAPCON PAVEMENT/UTILITIES/SITE IMP	LS			(439)
CONTROL TOWER/PAVEMENT/UTILITIES	LS			(942)
SPECIAL SITE CONDITIONS	LS			(1,206)
SUBTOTAL				13,310
CONTINGENCY (5.0 %)				666
TOTAL CONTRACT COST				13,976
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				797
TOTAL REQUEST				14,772
TOTAL REQUEST (ROUNDED)				14,800
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,000.0)

10. Description of Proposed Construction: Construct consolidated crash/structural fire station to house fire protection vehicles, equipment, personnel, alarm center, all support areas. Construct collocated control tower/RAPCON. Include sloped standing seam metal roofs, underground utilities & communications infrastructure, pavements, access roads, site improvements, AT/FP physical security. Demolish old fire station (530) & tower (634).

11. REQUIREMENT: 4,195 SM ADEQUATE: 0 SM SUBSTANDARD: 3,013 SM

PROJECT: Construct Fire Station/Control Tower/RAPCON (Current Mission).

REQUIREMENT: Modern, efficient fire station required to house all authorized airfield and base fire fighting vehicles, drive-through stalls, personnel, alarm center, training, administration, storage, fire hose tower. Location will be on the flightline and centrally located to meet airfield response times. Sleeping areas will not discharge directly into vehicle stalls, adequate shower and lavatory facilities required for male and female firefighters, and suitable living space for cooking, dining, relaxing, and physical fitness. Properly sized air traffic control tower required to meet Air Force and Federal Aviation Administration standards for safety, effectiveness, efficiency, and uncompromised control of flying traffic. New radar approach control facility with upgraded equipment, expanded training area, and traffic controller simulator is required to improve flight safety, training, and retention and morale of controllers. RAPCON will be collocated with tower to improve operational and facility efficiencies.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	FIRE STATION/CONTROL TOWER/RAPCON

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	730-142	JTSD990072	14,800

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started

(b) Parametric Cost Estimates used to develop costs

(c) Percent Complete as of 01 JAN 2004

(d) Date 35% Designed

(e) Date Design Complete

(f) Energy Study/Life-Cycle analysis was/will be performed NO

(2) Basis:

(a) Standard or Definitive Design - NO

(b) Where Design Was Most Recently Used -

(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	0
(b) All Other Design Costs	0
(c) Total	0
(d) Contract	0
(e) In-house	0

(4) Construction Contract Award

(5) Construction Start

(6) Construction Completion

b. Equipment associated with this project provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMPREHENSIVE INTERIOR DESIGN	3400	2006	500
COMMUNICATIONS-ELECTRONIC EQNT	3400	2006	500

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	FIRE STATION/CONTROL TOWER/RAPCON

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	730-142	JFSD990872	14,800

CURRENT SITUATION: The 1957-vintage main crash/fire rescue facility is severely undersized, has an unsafe, inefficient maze layout, inadequate vehicles-stall clearances, and does not meet current codes for life safety and standards of living. Building systems including HVAC are obsolete, difficult to maintain, and inefficient. Station lacks adequate maintenance space; hoses must be laid out in office areas for drying in the winter. The main station does not meet airfield response time requirements. Although a satellite station fills the gap in response timing, it is small and cramped, and the inefficiency of separated operations defeats its purpose of effective fire protection for the base. The 30-year-old air traffic control tower is severely undersized, a third the size of most Air Force tower cabs, does not meet current Air Force or Federal Aviation Administration standards, and is the oldest standing tower in Air Mobility Command. Much-needed upgrades to air traffic control systems cannot be incorporated into the antiquated tower cab. Current operations tempo requirement for additional controllers and recent equipment additions have rendered the cab space unsuitable for day-to-day operations. Furthermore, the present tower has "high maintenance", "difficult to maintain", and "outdated" mechanical and electrical components and equipment that routinely break down and directly impact quality of air traffic control service, as well as controller workload. The tower cab windows, despite attempted repairs, continually leak during heavy rainstorms. The existing radar approach control facility is outdated and inefficient because of its separation from the control tower. Supervisory personnel and controllers have to move between buildings, including exposure to the extreme winter conditions, to perform routine daily duties and upgrade training.

IMPACT IF NOT PROVIDED: Adequate fire protection for Air Force aircraft and facilities will not be provided. Firefighter response will continue to be hindered by an improperly located, unsafe, inefficient fire station. Obsolete, cramped facilities will continue to adversely impact morale and retention of military and civilian firefighters. The substandard air traffic control tower will continue to deteriorate further below AF and FAA standards, causing major safety concerns for both aircrews and air traffic controllers at Grand Forks AFB. Air traffic control personnel will face increased challenges trying to keep their systems operational, and facility inefficiencies will continue to adversely impact job performance, training, and morale.

ADDITIONAL: This project does meet the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements". An economic analysis has been prepared comparing alternatives of status quo, new construction, and adding to and altering the existing facilities. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost effective over the life of the project. Cost estimate was developed using PACES. BASE CIVIL ENGINEER: Lt Col Douglas G. Tarbett, (701) 747-4769.

JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.

Mr. L. David Glatt, Chief
Environmental Health Section
North Dakota Department of Health
600 East Boulevard Avenue
Bismarck, ND 58505-0200

RE: Environmental Assessment for Proposed Construction of a Fire Station, Control Tower, and Radar Approach Control Facility at Grand Forks Air Force Base, North Dakota.

Dear Mr. Glatt:

The U.S. Air Force is preparing an environmental assessment on the above referenced project. The attached *Description of the Proposed Action and Alternatives (DOPAAs)* provides details of the action for your review in accordance with the President's Executive Order on Intergovernmental Review of Federal Programs. Please identify resources within your agency's responsibility that may be impacted by the action. Comments should be sent within 15 days of receipt of this letter to:

Ms. Heidi Durako, 319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

Your assistance in providing information is greatly appreciated. If you have any questions, please call Ms. Durako at 701-747-4774.

Sincerely,

WAYNE A. KOOP, R.E.M.
Environmental Management Flight Chief

Attachment:
DOPAA (3 copies)

Mr. Merlan E. Paaverud, Jr.
State Historic Preservation Officer
State Historical Society of North Dakota
612 East Boulevard Avenue
Bismarck, ND 58505-0200

RE: Environmental Assessment for Proposed Construction of a Fire Station, Control Tower, and Radar Approach Control Facility at Grand Forks Air Force Base, North Dakota

Dear Mr. Paaverud:

The U.S. Air Force is preparing an environmental assessment on the above referenced project. The attached *Description of the Proposed Action and Alternatives* (DOPAAs) provides details of the action for your review in accordance with the President's Executive Order on Intergovernmental Review of Federal Programs. Please identify resources within your agency's responsibility that may be impacted by the action. Comments should be sent within 15 days of receipt of this letter to:

Ms. Heidi Durako, 319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

Your assistance in providing information is greatly appreciated. If you have any questions, please call Ms. Durako at 701-747-4774.

Sincerely,

WAYNE A. KOOP, R.E.M.
Environmental Management Flight Chief

Attachment:

DOPAA (3 copies)

STATE HISTORICAL SOCIETY OF NORTH DAKOTA

May 23, 2003

Heidi Durako, 319 CES/CEVA
525 Tuskegee Airmen Blvd
Grand Forks AFB, ND 58205-6434

ND SHPO Ref.: 97-0527, DOPAAs, Fire Station, Control Tower, and Radar Approach Control Facility, Grand Forks Air Force Base, North Dakota.

Dear Ms. Durako:

We have reviewed: *Description of Proposed Action and Alternatives for an Environmental Assessment to Construct a Fire Station/Control Tower/Rapcon at Grand Forks Air Force Base North Dakota.*

Buildings 530 (fire station), 634 (ATC tower), and 635 (RAPCON facility) are not among the buildings that are National Register eligible. As a result, no National Register eligible properties will be affected by the projects proposed in the DOPAAs.

We look forward to continuing to work with your department on projects requiring Section 106 review, and thank you for the opportunity to review this project. Please include the ND SHPO Reference number listed above in any further correspondence for this specific project. If you have any questions please contact Duane Klinner at (701) 328-3576.

Sincerely,

Merlan E. Paaverud, Jr.
State Historic Preservation Officer
(North Dakota)

STATE HISTORICAL SOCIETY OF NORTH DAKOTA

July 17, 2003

Heidi Durako, 319 CES/CEVA
525 Tuskegee Airmen Blvd
Grand Forks AFB, ND 58205-6434

ND SHPO Ref.: 97-0527, Draft EA, Fire Station, Control Tower, and Radar Approach Control Facility, Grand Forks Air Force Base, North Dakota.

Dear Ms. Durako:

We have reviewed: *Environmental Assessment: Construct Fire Station/Control Tower/RAPCON at Grand Forks Air Force Base North Dakota.*, draft version, July 2003, and have the following comment:

Section 3.6.1, Page 3-8 - We recommend changing "The other materials in isolated finds were prehistoric and historic finds" to something similar to: "The isolated finds consist of low density prehistoric and historic artifact locations."

We look forward to continuing to work with your department on projects requiring Section 106 review, and thank you for the opportunity to review this project. Please include the ND SHPO Reference number listed above in any further correspondence for this specific project. If you have any questions please contact Duane Klinner at (701) 328-3576.

Sincerely,

Merlan E. Paaverud, Jr.
State Historic Preservation Officer
(North Dakota)

FILE 4B KCS#024 CEVA HD

NORTH DAKOTA DEPARTMENT OF HEALTH
Environmental Health Section

Location:
1200 Missouri Avenue
Bismarck, ND 58504-5264

Fax #:
701-328-5200

Mailing Address:
P.O. Box 5520
Bismarck, ND 58506-5520

May 16, 2003

Ms. Heidi Durako
319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

Re: Environmental Assessment for Proposed Construction of a Fire Station, Control Tower and Radar Approach Control Facility Grand Forks Air Force Base, Grand Forks County

Dear Ms. Durako:

This department has reviewed the information concerning the above-referenced project submitted under date of May 13, 2003, with respect to possible environmental impacts.

This department believes that environmental impacts from the proposed construction will be minor and can be controlled by proper construction methods. With respect to construction, we have the following comments:

1. All necessary measures must be taken to minimize fugitive dust emissions created during demolition activities. Any complaints that may arise are to be dealt with in an efficient and effective manner.

2. Care is to be taken during construction activity near any water of the state to minimize adverse effects on a water body. This includes minimal disturbance of stream beds and banks to prevent excess siltation, and the replacement and revegetation of any disturbed area as soon as possible after work has been completed. Caution must also be taken to prevent spills of oil and grease that may reach the receiving water from equipment maintenance, and/or the handling of fuels on the site. Guidelines for minimizing degradation to waterways during construction are attached.

3. Projects disturbing one or more acres are required to have a permit to discharge storm water runoff until the site is stabilized by the reestablisment of vegetation or other permanent cover. Also, cities may impose additional requirements and/or specific best management practices for construction affecting their storm drainage system. Check with the local officials to be sure any local storm water management considerations are addressed.

4. All necessary measures must be taken to minimize the disturbance of any asbestos-containing material and to prevent any asbestos fiber release episodes. Removal of any

friable asbestos-containing material must be accomplished in accordance with section 33-15-13-02 of the North Dakota air pollution control rules.

The department owns no land in or adjacent to the proposed improvements, nor does it have any projects scheduled in the area. In addition, we believe the proposed activities are consistent with the State Implementation Plan for the Control of Air Pollution for the State of North Dakota.

These comments are based on the information provided about the project in the above-referenced submittal. The U.S. Army Corps of Engineers may require a water quality certification from this department for the project if the project is subject to their Section 404 permitting process. Any additional information which may be required by the U.S. Army Corps of Engineers under the process will be considered by this department in our determination regarding the issuance of such a certification.

If you have any questions regarding our comments, please feel free to contact this office.

Sincerely,

L. David Glatt, Chief
Environmental Health Section

LDG:cc
Attach.

NORTH DAKOTA DEPARTMENT OF HEALTH
Environmental Health Section

Location:
1200 Missouri Avenue
Bismarck, ND 58504-5264

Fax #:
701-328-5200

Mailing Address:
P.O. Box 5520
Bismarck, ND 58506-5520

December 2000

Construction and Environmental Disturbance Requirements

These represent the minimum requirements of the North Dakota Department of Health. They ensure that minimal environmental degradation occurs as a result of construction or related work which has the potential to affect the waters of the State of North Dakota. All projects will be designed and implemented to restrict the losses or disturbances of soil, vegetative cover, and pollutants (chemical or biological) from a site.

Soils

Prevent the erosion of exposed soil surfaces and trapping sediments being transported. Examples include, but are not restricted to, sediment dams or berms, diversion dikes, hay bales as erosion checks, riprap, mesh or burlap blankets to hold soil during construction, and immediately establishing vegetative cover on disturbed areas after construction is completed. Fragile and sensitive areas such as wetlands, riparian zones, delicate flora, or land resources will be protected against compaction, vegetation loss, and unnecessary damage.

Surface Waters

All construction which directly or indirectly impacts aquatic systems will be managed to minimize impacts. All attempts will be made to prevent the contamination of water at construction sites from fuel spillage, lubricants, and chemicals, by following safe storage and handling procedures. Stream bank and stream bed disturbances will be controlled to minimize and/or prevent silt movement, nutrient upsurges, plant dislocation, and any physical, chemical, or biological disruption. The use of pesticides or herbicides in or near these systems is forbidden without approval from this Department.

Fill Material

Any fill material placed below the high water mark must be free of top soils, decomposable materials, and persistent synthetic organic compounds (in toxic concentrations). This includes, but is not limited to, asphalt, tires, treated lumber, and construction debris. The Department may require testing of fill materials. All temporary fills must be removed. Debris and solid wastes will be removed from the site and the impacted areas restored as nearly as possible to the original condition.

NORTH DAKOTA DEPARTMENT OF HEALTH
Environmental Health Section

Location:
1200 Missouri Avenue
Bismarck, ND 58504-5264

Fax #:
701-328-5200

Mailing Address:
P.O. Box 5520
Bismarck, ND 58506-5520

July 8, 2003

Ms. Heidi Durako
319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

Re: Environmental Assessment for Proposed Construction of a
Fire Station, Control Tower and Radar Approach Control Facility
Grand Forks Air Force Base, Grand Forks County

Dear Ms. Durako:

This department has reviewed the information concerning the above-referenced project submitted under date of July 2, 2003, with respect to possible environmental impacts.

This department believes that environmental impacts from the proposed construction and demolition will be minor and can be controlled by proper construction and demolition methods. With respect to the construction and demolition, our comments remain the same as in our May 16, 2003 response to you (copy attached).

If you have any questions regarding our comments, please feel free to contact this office.

Sincerely,

L. David Glatt, Chief
Environmental Health Section

LDG:cc
Attach.

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 319TH AIR REFUELING WING (AMC)
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

319 CES/CE
525 Tuskegee Airmen Blvd
Grand Forks AFB ND 58205

Mr. Bobby Whitefeather, Chairperson
Red Lake Tribal Council
PO Box 550
Red Lake MN 55089

Dear Mr. Whitefeather,

Grand Forks Air Force Base (AFB) would like your comments on any sacred, or culturally sensitive sites or areas known to you on lands managed by Grand Forks AFB. We are especially concerned with cultural resources as covered by the Native American Indian Religious Freedom Act of 1978 (P.L. 95-341), and the Native American Graves Protection and Repatriation Act of 1990 (P.L. 101-601). Archeological surveys on Grand Forks AFB have not found evidence of culturally sensitive areas, such as burial mounds.

Please submit your comments to the address above, by 15 May 03. If you have any questions, please contact our Cultural Resource Manager, Ms. Heidi Durako, at 701-747-4774.

Sincerely,

MARY C GILTNER
Base Civil Engineer

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 319TH AIR REFUELING WING (AMC)
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

14 APR 2003

319 CES/CE
525 Tuskegee Airmen Blvd
Grand Forks AFB ND 58205

Ms. Audrey Kohnen, Chairperson
Prairie Island Community Council
5636 Sturgeon Lake Road
Welch MN 55089

Dear Ms. Kohnen,

Grand Forks Air Force Base (AFB) would like your comments on any sacred, or culturally sensitive sites or areas known to you on lands managed by Grand Forks AFB. We are especially concerned with cultural resources as covered by the Native American Indian Religious Freedom Act of 1978 (P.L. 95-341), and the Native American Graves Protection and Repatriation Act of 1990 (P.L. 101-601). Archeological surveys on Grand Forks AFB have not found evidence of culturally sensitive areas, such as burial mounds.

Please submit your comments to the address above, by 15 May 03. If you have any questions, please contact our Cultural Resource Manager, Ms. Heidi Durako, at 701-747-4774.

Sincerely,

MARY J. GILTNER
Base Civil Engineer

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 319TH AIR REFUELING WING (AMC)
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

319 CES/CE
525 Tuskegee Airmen Blvd
Grand Forks AFB ND 58205

Richard A. Monette, Chairman
Turtle Mountain Nation
PO Box 900
Belcourt ND 58316

Dear Mr. Monette,

Grand Forks Air Force Base (AFB) would like your comments on any sacred, or culturally sensitive sites or areas known to you on lands managed by Grand Forks AFB. We are especially concerned with cultural resources as covered by the Native American Indian Religious Freedom Act of 1978 (P.L. 95-341), and the Native American Graves Protection and Repatriation Act of 1990 (P.L. 101-601). Archeological surveys on Grand Forks AFB have not found evidence of culturally sensitive areas, such as burial mounds.

Please submit your comments to the address above, by 15 May 03. If you have any questions, please contact our Cultural Resource Manager, Ms. Heidi Durako, at 701-747-4774.

Sincerely,

MARY A. GILTNER
Base Civil Engineer

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 319TH AIR REFUELING WING (AMC)
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

319 CES/CE
525 Tuskegee Airmen Blvd
Grand Forks AFB ND 58205

Tex G. Hall, Chairman
Three Affiliated Tribes (Arikara, Hidatsa, Mandan)
404 Frontage Road
New Town ND 58763

Dear Mr. Hall,

Grand Forks Air Force Base (AFB) would like your comments on any sacred, or culturally sensitive sites or areas known to you on lands managed by Grand Forks AFB. We are especially concerned with cultural resources as covered by the Native American Indian Religious Freedom Act of 1978 (P.L. 95-341), and the Native American Graves Protection and Repatriation Act of 1990 (P.L. 101-601). Archeological surveys on Grand Forks AFB have not found evidence of culturally sensitive areas, such as burial mounds.

Please submit your comments to the address above, by 15 May 03. If you have any questions, please contact our Cultural Resource Manager, Ms. Heidi Durako, at 701-747-4774.

Sincerely,

MARY J. GILTNER
Base Civil Engineer

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 319TH AIR REFUELING WING (AMC)
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

319 CES/CE
525 Tuskegee Airmen Blvd
Grand Forks AFB ND 58205

Charles W. Murphy, Chairman
Standing Rock Sioux Tribal Council
PO Box D
Fort Yates ND 58538

Dear Mr. Murphy,

Grand Forks Air Force Base (AFB) would like your comments on any sacred, or culturally sensitive sites or areas known to you on lands managed by Grand Forks AFB. We are especially concerned with cultural resources as covered by the Native American Indian Religious Freedom Act of 1978 (P.L. 95-341), and the Native American Graves Protection and Repatriation Act of 1990 (P.L. 101-601). Archeological surveys on Grand Forks AFB have not found evidence of culturally sensitive areas, such as burial mounds.

Please submit your comments to the address above, by 15 May 03. If you have any questions, please contact our Cultural Resource Manager, Ms. Heidi Durako, at 701-747-4774.

Sincerely,

MARY G. GILTNER
Base Civil Engineer

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 319TH AIR REFUELING WING (AMC)
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

319 CES/CE
525 Tuskegee Airmen Blvd
Grand Forks AFB ND 58205

Ms. Ann Larsen, President
Lower Sioux Indian Community Council
39527 Res Highway 1
PO Box 308
Morton MN 56270

Dear Ms. Larsen,

Grand Forks Air Force Base (AFB) would like your comments on any sacred, or culturally sensitive sites or areas known to you on lands managed by Grand Forks AFB. We are especially concerned with cultural resources as covered by the Native American Indian Religious Freedom Act of 1978 (P.L. 95-341), and the Native American Graves Protection and Repatriation Act of 1990 (P.L. 101-601). Archeological surveys on Grand Forks AFB have not found evidence of culturally sensitive areas, such as burial mounds.

Please submit your comments to the address above, by 15 May 03. If you have any questions, please contact our Cultural Resource Manager, Ms. Heidi Durako, at 701-747-4774.

Sincerely,

MARY G. GILTNER
Base Civil Engineer

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 319TH AIR REFUELING WING (AMC)
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

09 APR 2003

319 CES/CE
525 Tuskegee Airmen Blvd
Grand Forks AFB ND 58205

Phillip "Skip" Longie, Chairman
Spirit Lake Tribal Council
PO Box 359
Fort Totten ND 58335

Dear Mr. Longie,

Grand Forks Air Force Base (AFB) would like your comments on any sacred, or culturally sensitive sites or areas known to you on lands managed by Grand Forks AFB. We are especially concerned with cultural resources as covered by the Native American Indian Religious Freedom Act of 1978 (P.L. 95-341), and the Native American Graves Protection and Repatriation Act of 1990 (P.L. 101-601). Archeological surveys on Grand Forks AFB have not found evidence of culturally sensitive areas, such as burial mounds.

Please submit your comments to the address above, by 15 May 03. If you have any questions, please contact our Cultural Resource Manager, Ms. Heidi Durako, at 701-747-4774.

Sincerely,

MARY C. GILTNER
Base Civil Engineer

FACILITY DISPOSAL

DATE 20031118

FORM APPROVED OMB NO. 0704-0188

NAME AND LOCATION OF INSTALLATION	COMMAND	INSTALLATION CODE.
Grand Forks AFB, North Dakota	AMC	JFSD

OBTAIN INFORMATION FOR COLUMNS A THROUGH F FROM RCS: HAF-LEE(AR)7115

FACILITY NUMBER A	CATEGORY CODE B	NOMENCLATURE C	U OF M D	QUANTITY E	COST F	DISPOSAL VALUE G
530	730-142	Fire Station	SF	21266	$1,176,282.00	$0.00

CONDITIONS PROMPTING DISPOSAL *(See AFI32-9004 for required attachments)*

This building houses fire protection vehicles, equipment and operating personnel of the base fire department. It was constructed in 1957 as the main fire station and is located near the flight line. Combining the 2 current fire stations into one complex, this building wiil no longer be required. It would not be cost effective to try and redesign it for another function and try to bring it up AMC standards. This building was in the footprint of new construction. On 19 Jan 2001, the Grand Forks AFB Facility Board proved demolition of this fire station under the base master plan and it is committed to Congress for demolition on the DD Form 1391.

I HEREBY CERTIFY DISPOSAL ACTION HAS CLEARED ALL ENVIRONMENTAL REQUIREMENTS.

TYPED NAME AND GRADE OF ENVIRONMENTAL ENGINEER	SIGNATURE
WAYNE A. KOOP, R.E.M., GM-13 Environmental Management Flight Chief	

INDICATE IN APPLICABLE BOX IF SCREENING HAS OR HAS NOT BEEN MADE WITH ARMY OR NAVY *(If "NO", explain)*

☐ YES ☐ NO

ACTIONS BY INSTALLATIONS FACILITIES BOARD

ACTION				DISPOSAL ACTION				
	DISAPPROVED		APPROVED		SALE		SALVAGE	OTHER *(Specify)*
	RECOMMENDED FOR APPROVAL			DISPOSAL TO BE COMPLETED ON OR BEFORE				

TYPED NAME AND GRADE OF FACILITIES BOARD RECORDER	SIGNATURE	DATE
KEN JOHNSON, GS-13 Chief, Engineering Flight		

ACTIONS BY APPROVING COMMAND

DISPOSAL ACTION				DISPOSAL ACCOMPLISHED BY				
	DISAPPROVED		APPROVED		SALE		SALVAGE	OTHER *(Specify)*
	RECOMMENDED FOR APPROVAL			DISPOSAL TO BE COMPLETED ON OR BEFORE				

D NAME AND GRADE OF MAJCOM APPROVING OFFICIAL	SIGNATURE	DATE
...ARK F. RAMSAY, Col, USAF Commander, 319 Air Refueling Wing		

AF FORM 300, 19971001 *(EF-V2)* PREVIOUS EDITIONS IS OBSOLETE.

FCS #03-019

FACILITY DISPOSAL

FACILITY DISPOSAL	DATE 20031021	FORM APPROVED OMB NO. 0704-0188

NAME AND LOCATION OF INSTALLATION	COMMAND	INSTALLATION CODE.
Grand Forks AFB, North Dakota 58205	AMC	JFSD

OBTAIN INFORMATION FOR COLUMNS A THROUGH F FROM RCS: HAF-LEE(AR)7115

FACILITY NUMBER A	CATEGORY CODE B	NOMENCLATURE C	U OF M D	QUANTITY E	COST F	DISPOSAL VALUE G
634	149-962	Tower, Control	sf	2146	$622.189.00	$.00

CONDITIONS PROMPTING DISPOSAL *(See AFI32-9004 for required attachments)*

The 30-year-old air traffic control tower is severely undersized, a third the size of most Air Force tower cabs, does not meet current Air Force or Federal Aviation Administration standards, and is the oldest standing tower in AMC. Much-needed upgrades to air traffice control systems cannot be incorporated into the antiquated tower cab. Current operations tempo requirement for additional controllers and recent equipment additions have rendered the cab space unsuitable for day-to-day operations. This tower has "high maintenance", "difficult to maintain", and "outdated" mechanical and electrical components. Equipment routinely breaks down and directly impacts quality of air traffic control service. Tower is scheduled to be demolished under project number JFSD990072P2.

I HEREBY CERTIFY DISPOSAL ACTION HAS CLEARED ALL ENVIRONMENTAL REQUIREMENTS.

TYPED NAME AND GRADE OF ENVIRONMENTAL ENGINEER	SIGNATURE
WAYNE A. KOOP, R.E.M., GM-13 Environmental Management Flight Chief	Wayne A. Koop

INDICATE IN APPLICABLE BOX IF SCREENING HAS OR HAS NOT BEEN MADE WITH ARMY OR NAVY *(If "NO", explain)*

☐ YES ☐ NO

ACTIONS BY INSTALLATIONS FACILITIES BOARD

ACTION		DISPOSAL ACTION		
☐ DISAPPROVED	☐ APPROVED	☐ SALE	☐ SALVAGE	OTHER *(Specify)*
☐ RECOMMENDED FOR APPROVAL		DISPOSAL TO BE COMPLETED ON OR BEFORE		

TYPED NAME AND GRADE OF FACILITIES BOARD RECORDER	SIGNATURE	DATE
KEN JOHNSON, GM-13 Chief, Engineering Flight		

ACTIONS BY APPROVING COMMAND

DISPOSAL ACTION		DISPOSAL ACCOMPLISHED BY		
☐ DISAPPROVED	☐ APPROVED	☐ SALE	☐ SALVAGE	OTHER *(Specify)*
☐ RECOMMENDED FOR APPROVAL		DISPOSAL TO BE COMPLETED ON OR BEFORE		

NAME AND GRADE OF MAJCOM APPROVING OFFICIAL	SIGNATURE	DATE
MARK F. RAMSAY, Col, USAF Commander, 319 Air Refueling Wing		

LCS #03-015

FACILITY DISPOSAL

DATE 20031014

FORM APPROVED OMB NO. 0704-0188

NAME AND LOCATION OF INSTALLATION	COMMAND	INSTALLATION CODE.
Grand Forks AFB, North Dakota	AMC	JFSD

OBTAIN INFORMATION FOR COLUMNS A THROUGH F FROM RCS: HAF-LEE(AR)7115

FACILITY NUMBER A	CATEGORY CODE B	NOMENCLATURE C	U OF M D	QUANTITY E	COST F	DISPOSAL VALUE G
530	730-142	Fire Station	SF	21266	$1,176,282.00	$0.00

CONDITIONS PROMPTING DISPOSAL *(See AFI32-9004 for required attachments)*

This building houses fire protection vehicles, equipment and operating personnel of the base fire department. It was constructed in 1957 as the main fire station and is located near the flight line. Combining the 2 current fire stations into one complex this building will no longer be required. It would not be cost effective to try and redesign it for another function and try to bring it up AMC standards. On 19 Jan 2001 the Grand Forks AFB Facility Board approved to demolish this fire station under the base master plan and is scheduled on a work order for disposal.

I HEREBY CERTIFY DISPOSAL ACTION HAS CLEARED ALL ENVIRONMENTAL REQUIREMENTS.

TYPED NAME AND GRADE OF ENVIRONMENTAL ENGINEER	SIGNATURE
WAYNE A. KOOP, R.E.M., GM-13 Environmental Management Flight Chief	

INDICATE IN APPLICABLE BOX IF SCREENING HAS OR HAS NOT BEEN MADE WITH ARMY OR NAVY *(If "NO", explain)*

☐ YES ☐ NO

ACTIONS BY INSTALLATIONS FACILITIES BOARD

ACTION				DISPOSAL ACTION				
	DISAPPROVED		APPROVED		SALE		SALVAGE	OTHER *(Specify)*
	RECOMMENDED FOR APPROVAL			DISPOSAL TO BE COMPLETED ON OR BEFORE				

TYPED NAME AND GRADE OF FACILITIES BOARD RECORDER	SIGNATURE	DATE
KEN JOHNSON, GM-13 Chief, Engineering Flight		

ACTIONS BY APPROVING COMMAND

DISPOSAL ACTION				DISPOSAL ACCOMPLISHED BY				
	DISAPPROVED		APPROVED		SALE		SALVAGE	OTHER *(Specify)*
	RECOMMENDED FOR APPROVAL			DISPOSAL TO BE COMPLETED ON OR BEFORE				

TYPED NAME AND GRADE OF MAJCOM APPROVING OFFICIAL	SIGNATURE	DATE
MARK F. RAMSAY, Col, USAF Commander, 319 Air Refueling Wing		

File 9B CEVA
RCS#03-012

GMI
GEO-MARINE INCORPORATED
8301 Broadway, Suite 308 San Antonio, Texas 78209-2067 ph: 210.930.3007 fax: 210.930.3777
www.geo-marine.com

28 January 2003

Ms. Sharon Vaca
311th HSW/PKVAB
3207 Sidney Brooks
Brooks City-Base, TX 78235-5344

Via electronic mail: sharon.vaca@brooks.af.mil

Re: Technical and Cost Proposal, Contract F41624-01-D-8556, Task Order 0048
Environmental Assessment for Construct Fire Station/Control Tower/RAPCON
Grand Forks AFB, North Dakota

Dear Ms. Vaca:

Geo-Marine, Inc. (GMI) is pleased to submit the attached Technical and Cost Proposal for preparing an Environmental Assessment for proposed construction of the fire station/control tower/RAPCON at Grand Forks AFB, North Dakota in accordance with the Statement of Work (SOW) dated 23 January 2003. Please allow us to modify this proposal should aspects of it be inconsistent with your needs. If you have any questions or need additional information, please call me at (210) 930-3007. If you have any questions concerning contractual matters, please call Ms. Shawna Chapman in Plano at (972) 423-5480.

Sincerely,

Charysse Menig Knotts

Charysse Menig Knotts, P.E.
Program Manager

Attachment: Technical and Cost Proposal

cc: Robert Lopez, AFCEE/ECE, Brooks City-Base
Shawna Chapman, GMI Contracts Administrator, Plano
Joe Campo, GMI Project Manager, Newport News
Ron Moore, GMI QAM, Plano
File 12560.00.48

TECHNICAL AND COST PROPOSAL

Environmental Assessment for
Construct Fire Station/Control Tower/RAPCON
Grand Forks AFB, North Dakota

Contract Number F41624-01-D-8556
Task Order 0048

Prepared for:
Department of the Air Force
Headquarters 311th Human Systems Wing
Air Force Materiel Command
and
Air Force Center for Environmental Excellence
Brooks City-Base, Texas

Prepared by:

GEO-MARINE INCORPORATED

Geo-Marine, Inc.
Newport News, Virginia

28 January 2003

1.0 INTRODUCTION

This proposal provides a comprehensive technical and management approach for an Environmental Assessment and, if applicable, a Finding of No Significant Impact (FONSI) addressing proposed construction of a fire station, control tower, and radar approach control facility (RAPCON) at Grand Forks Air Force Base (AFB), North Dakota. This proposal also includes a cost estimate with breakout by discipline of proposed labor hours, labor cost, and other direct costs. This proposal has been prepared in accordance with the Geo-Marine, Inc., (GMI) Quality Assurance Program. This project is administered by the Department of the Air Force, Headquarters 311th Human Systems Wing, Air Force Materiel Command at Brooks City-Base, Texas, and prepared to support the 319 CES/CEVA at Grand Forks AFB. This project will be performed for the Air Force Center for Environmental Excellence (AFCEE) as a firm fixed price effort under the Environmental Minor Construction and Operations & Services (EMCOS) Contract Number F41624-01-D-8556, Task Order (TO) 0048. GMI will furnish the necessary personnel, services, equipment, tools, materials, vehicles, facilities, supervision, and support for the following tasks:

- Initial kickoff meeting, fact finding surveys, and agency coordination
- Develop draft and final Environmental Assessment
- If applicable, draft a FONSI for Air Force signature

2.0 CLARIFICATIONS, ASSUMPTIONS, AND EXCEPTIONS

GMI reviewed the Statement of Work (SOW) dated 23 January 2003 and the Contract Data Requirements Lists (CDRLs) specified in the SOW for the deliverables required on this project effort. GMI understands the level of effort for this project and has taken into consideration that the rough order of magnitude (ROM) cost for this project is between $20,000.00 and $40,000.00. GMI has found no clarifications, assumptions, and exceptions to the SOW.

3.0 ADMINISTRATIVE AND MANAGERIAL REQUIREMENTS

GMI will perform management and planning functions, performance measures, and cost status reporting as specified in the SOW. Unless otherwise directed, GMI will submit hard copy and electronic deliverables to the AFCEE/ECE Contracting Officer Representative (COR) and the 319 CES/CEVA point-of-contact (POC).

4.0 MANAGEMENT, PLANNING, AND REPORTING REQUIREMENTS

GMI will prepare and submit all deliverables in accordance with the SOW. GMI possesses the personnel necessary to perform the project. GMI will accomplish the required tasks using qualified personnel possessing appropriate certificates and training in accordance with the SOW. GMI will coordinate with other government agencies, as directed by the AFCEE/ECE COR and/or the 319 CES/CEVA POC, regarding environmental issues required for the scope of work.

4.1 Meetings and Teleconferences

The activities under this task include overall project management, participation in meetings, and task coordination. Specifically, this task will include a post award teleconference with Grand

Forks AFB personnel, and HQ AFCEE/ECE. In addition, one post award kickoff meeting will be held at Grand Forks AFB, at which time GMI will present a work plan (CDRL A008) with proposed methods for meeting the objectives of the project. Meeting minutes (CDRL B001) and list of attendees will be prepared by GMI and submitted to the AFCEE COR and the 319 CES/CEVA POC within ten calendar days of the meeting. Progress meetings will be conducted by teleconference as needed. Meeting minutes will be submitted as required.

4.2 Contractor's Progress, Status, and Management Report

GMI will submit a CPSMR (CDRL B005) to the CO, AFCEE COR, and 319 CES/CEVA POC for review and evaluation of the overall progress of the project and any existing or potential problem areas. The CPSMR will include the following:

- Status of current project activities and progress
- Results of previously identified issues
- Changes to project team or approach
- Identification of problem areas and proposed solutions
- Corrective actions taken
- Schedule status
- Current and cumulative cost
- Future plans

5.0 TECHNICAL APPROACH

GMI will accomplish the requirements described in the SOW using the approach outlined in Environmental Impact Analysis Process (EIAP), 32 CFR 989,15 Jul 1999, and amended 28 Mar 01. Major tasks and deliverables will include the following:

- Conduct site reconnaissance and prepare a letter-format report (CDRL A014)
- Develop the draft and final Description of Proposed Action and Alternatives (DOPAA) (CDRL A013A)
- Develop the draft EA, draft (final) EA for agency review, revised draft (final) EA for public review, revised draft (final) EA, and final EA (CDRL A013B)
- Prepare the draft and final FONSI (CDRL A013C) for Air Force signature, if applicable

6.0 PROJECT ORGANIZATION

Management of this project will be from the GMI Newport News office. Dr. Joseph Campo will be the Project Manager and will have primary responsibility for maintaining the project file of all correspondence and criteria pertinent to this project, project coordination, and overall project responsibilities. Mr. Ron Moore (GMI-Plano) will have responsibility for Quality Assurance and Quality Control. Ms. Charysse Menig Knotts (GMI-San Antonio) will act as Program Manager and ensure compliance with all AFCEE requirements. Ms Shawna Chapman (GMI-Plano) will be the contracts administrator for this TO. Information for key personnel is listed below.

Geo-Marine Program Manager Ms. Charysse Menig Knotts, P.E. 8301 Broadway, Suite 308 San Antonio, Texas 78209-2067 (210) 930-3007 (voice) (210) 930-3777 (fax) cknotts@geo-marine.com	AFCEE Contracting Officer's Representative Mr. Robert L. Lopez Task Order Manager/Contracting Officers Representative (COR) HQ AFCEE/ECE 3300 Sidney Brooks Brooks City-Base, Texas 78235-5112 (210) 536-6545 (voice) (210) 536-3890 (fax) robert.lopez@brooks.af.mil
Geo-Marine Project Manager Dr Joseph Campo 11846 Rock Landing Dr, Suite C Newport News, Virginia 23606 (757) 873-3702 (voice) (757) 873-3703 (fax) jcampo@geo-marine.com	Base POC/Project Manager Ms. Heidi Durako 319 CES/CEVA 525 Tuskegee Airmen Blvd. Grand Forks AFB, North Dakota 58205 701-747-4774 (voice) 701- 747-6155 (fax) heidi.durako@grandforks.af.mil
Geo-Marine Quality Assurance Manager Mr. Ron Moore 550 East 15th St. Plano, Texas 75074-5708 (972) 423-5480 (voice) (972) 422-2736 (fax) rmoore@geo-marine.com	AFCEE Contract Specialist Ms. Sharon Vaca 311th HSW/PKVAB 3300 Sidney Brooks Brooks City-Base, Texas 78235-5112 (210) 536-5766 (voice) (210) 536-3890 (fax) sharon.vaca@brooks.af.mil
Geo-Marine Contracts Administrator Ms. Shawna Chapman 550 East 15th St. Plano, Texas 75074-5708 (972) 423-5480 (voice) (972) 422-2736 (fax) schapman@geo-marine.com	

7.0 PROJECT SCHEDULE

The Notice to Proceed (NTP) for this project is anticipated on or before 1 March 2003. The period of performance is anticipated to be through 31 August 2003.

GMI shall prepare the following versions of the EA/FONSI in accordance with the schedule specified in the SOW and CDRLs:

- Draft DOPAA
- Final DOPAA
- Draft EA
- Draft (Final) EA and Proposed FONSI (agencies)
- Revised Draft (Final) EA/FONSI (public)
- Revised Draft (Final) EA/FONSI
- Final EA/FONSI

8.0 COST PROPOSAL

The costs estimated to accomplish this project including labor, office, material, equipment, subcontractor, and travel are detailed in the attached cost proposal spreadsheets. Labor categories are identified for the disciplines required to complete this project.

GMI Project Cost Estimate and Cost Backup

Project Cost Summary

Contract Number:	**F41624-01-D-8556**
Task Order Number:	**0048**
Project Title:	**EA for Construct Fire Station/Control Tower/RAPCON**
Prepared by:	**Joe Campo**
Date Prepared:	**28-Jan-03**

Top Level Summary of Major Cost Elements

Major Cost Elements		**Amount**
Labor	$	29,466.92
Other Direct Costs		
Office Costs	$	844.94
Materials	$	-
Equipment	$	-
Subcontractors	$	-
Travel	$	2,485.20
Total Other Direct Costs	$	3,330.14
Indirect Rate on ODCs (5%)	$	166.51
Subtotal	$	3,496.65
Profit Rate (9%)	$	314.70
Total Task Order Cost	**$**	**33,278.27**

Breakdown for Each Major Cost Element

Labor Category (FFP FY-02)	**Quantity**	**Unit**		**Rate**		**Cost**
Program Manager	8	hour	$	118.07	$	944.56
Project Manager	136	hour	$	86.91	$	11,819.76
Engineer - JL	16	hour	$	68.51	$	1,096.16
Ecologist/Biologist - SL	120	hour	$	90.39	$	10,846.80
Hazardous Waste Spec -SL	16	hour	$	65.93	$	1,054.88
CADD/GIS Operator - ML	16	hour	$	56.82	$	909.12
CADD/GIS Operator - JL	16	hour	$	37.19	$	595.04
Technical Writer/Editor - ML	16	hour	$	51.70	$	827.20
Clerical/Project Admin - ML	36	hour	$	38.15	$	1,373.40
TOTAL LABOR COST	**380**				**$**	**29,466.92**

Office Costs	**Quantity**	**Unit**		**Rate**		**Cost**
Items						
Report printing and copies	1,500	page	$	0.10	$	150.00
Report bindings, comb	32	each	$	1.31	$	41.92
Overnight shipping	2	each	$	19.83	$	39.66
Color copies	64	each	$	1.00	$	64.00
Publish NOA in Newspaper	1	each	$	549.36	$	549.36
TOTAL OFFICE COSTS					**$**	**844.94**

Material Costs	**Quantity**	**Unit**	**Rate**		**Cost**
TOTAL MATERIAL COSTS				**$**	-

Equipment Costs	**Quantity**	**Unit**	**Rate**		**Cost**
TOTAL EQUIPMENT COSTS				**$**	-

Subcontractor Costs	**Quantity**	**Unit**	**Rate**		**Cost**
TOTAL SUBCONTRACTOR COSTS				**$**	-

Travel Costs	**Quantity**	**Unit**		**Rate**		**Cost**
Items						
Lodging	10	day	$	55.00	$	550.00
Meals	10	day	$	30.00	$	300.00
Rental Car	5	day	$	45.04	$	225.20
Airfare (Newport News-Grand Forks)	2	round trip	$	705.00	$	1,410.00
TOTAL TRAVEL COSTS					**$**	**2,485.20**

Task Cost Summary

Contract Number:	F41624-01-D-8556
Task Order Number:	0048
Project Title:	EA for Construct Fire Station/Control Tower/RAPCON
Prepared by:	Joe Campo
Date Prepared:	28-Jan-2003

			Task 1: Coordination & Reporting		Task 2: Site Survey		Task 3: Document Preparation		TASK ORDER Project Total	
LABOR		RATE	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST
Labor Category	Name	FY02								
Program Manager	Charysse Knotts/Ron M	$118.07	8	$ 944.56	0	$ -	0	$ -	8	$ 944.56
Project Manager	Joe Campo	$86.91	32	$ 2,781.12	32	$ 2,781.12	72	$ 6,257.52	136	$ 11,819.76
Engineer - JL	Troy Andersen	$68.51	0	$ -	0	$ -	16	$ 1,096.16	16	$ 1,096.16
Ecologist/Biologist - SL	Sandy Brinson	$90.39	16	$ 1,446.24	32	$ 2,892.48	72	$ 6,508.08	120	$ 10,846.80
Hazardous Waste Spec -SL	JB Turley	$65.93	0	$ -	0	$ -	16	$ 1,054.88	16	$ 1,054.88
CADD/GIS Operator - ML	Anna Kenne	$56.82	0	$ -	0	$ -	16	$ 909.12	16	$ 909.12
CADD/GIS Operator - JL	Elizabeth Sartain	$37.19	0	$ -	0	$ -	16	$ 595.04	16	$ 595.04
Technical Writer/Editor - ML	Patti Knowles	$51.70	0	$ -	0	$ -	16	$ 827.20	16	$ 827.20
Clerical/Project Admin - ML	Phyllis Fletcher	$38.15	4	$ 152.60	0	$ -	32	$ 1,220.80	36	$ 1,373.40
SUBTOTAL LABOR			**60**	**$ 5,324.52**	**64**	**$ 5,673.60**	**256**	**$ 18,468.80**	**380**	**$ 29,466.92**
OTHER DIRECT COSTS										
Office Costs				$ -		$ -		$ 844.94		$ 844.94
Materials				$ -		$ -		$ -		$ -
Equipment				$ -		$ -		$ -		$ -
Subcontractors				$ -		$ -		$ -		$ -
Travel				$ 340.00		$ 2,145.20		$ -		$ 2,485.20
SUBTOTAL OTHER DIRECT COSTS				**$ 340.00**		**$ 2,145.20**		**$ 844.94**		**$ 3,330.14**
SUBTOTAL ODCs				**$ 340.00**		**$ 2,145.20**		**$ 844.94**		$ 3,330.14
INDIRECT RATE APPLIED TO ODCs		5.00%		$ 17.00		$ 107.26		$ 42.25		$ 166.51
SUBTOTAL				$ 357.00		$ 2,252.46		$ 887.19		$ 3,496.65
PROFIT RATE ON ODCs		9.00%		$ 32.13		$ 202.72		$ 79.85		$ 314.70
SUBTOTAL				**$ 389.13**		**$ 2,455.18**		**$ 967.03**		**$ 3,811.35**
TOTAL ESTIMATED COST LABOR AND ODCs				**$ 5,713.65**		**$ 8,128.78**		**$ 19,435.83**		**$ 33,278.27**
TOTAL ESTIMATED FIRM FIXED PRICE COST				**$ 5,713.65**		**$ 8,128.78**		**$ 19,435.83**		**$ 33,278.27**

Coordination & Reporting

Contract Number:	F41624-01-D-8556
Task Order Number:	0048
Project Title:	EA for Construct Fire Station/Control Tower/RAPCON
Prepared by:	Joe Campo
Task 1:	Coordination & Reporting

SUBTASKS:	Kickoff Mtg/Status Rpts	Agency Comm	Subtotal Labor	TOTAL LABOR
LABOR:				
Program Manager	8.0	-	8.0	$ 944.56
Project Manager	16.0	16.0	32.0	$ 2,781.12
Engineer - JL	-	-	-	$ -
Ecologist/Biologist - SL	8.0	8.0	16.0	$ 1,446.24
Hazardous Waste Spec -SL	-	-	-	$ -
CADD/GIS Operator - ML	-	-	-	$ -
CADD/GIS Operator - JL	-	-	-	$ -
Technical Writer/Editor - ML	-	-	-	$ -
Clerical/Project Admin - ML	4.0	-	4.0	$ 152.60
TOTAL HOURS:	**36.0**	**24.0**	**60.0**	**$ 5,324.52**

OFFICE COSTS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
Report printing and copies		page	$ 0.10	$ -
Report bindings, comb		each	$ 1.31	$ -
Overnight shipping		each	$ 19.83	$ -
Color copies		each	$ 1.00	$ -
Publish NOA in Newspaper		each	$ 549.36	$ -
			TOTAL:	**$ -**

MATERIALS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$ -**

EQUIPMENT

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$ -**

SUBCONTRACTS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$ -**

TRAVEL

DESCRIPTION	QUANTITY	DAYS	RATE	COST
Lodging	2	2	$ 55.00	$ 220.00
Meals	2	2	$ 30.00	$ 120.00
Rental Car	0	0	$ 45.04	$ -
Airfare (Newport News-Grand Forks)		R/T	$ 705.00	$ -
			TOTAL:	**$ 340.00**

Site Survey

Contract Number:	F41624-01-D-8556
Task Order Number:	0048
Project Title:	EA for Construct Fire Station/Control Tower/RAPCON
Prepared by:	Joe Campo
Task 2:	Site Survey

SUBTASKS:	Site Survey	Reporting	Subtotal Labor	TOTAL LABOR
LABOR:				
Program Manager	-	-	-	$ -
Project Manager	24.0	8.0	32.0	$ 2,781.12
Engineer - JL	-	-	-	$ -
Ecologist/Biologist - SL	24.0	8.0	32.0	$ 2,892.48
Hazardous Waste Spec -SL	-	-	-	$ -
CADD/GIS Operator - ML	-	-	-	$ -
CADD/GIS Operator - JL	-	-	-	$ -
Technical Writer/Editor - ML	-	-	-	$ -
Clerical/Project Admin - ML	-	-	-	$ -
TOTAL HOURS:	**48.0**	**16.0**	**64.0**	**$ 5,673.60**

OFFICE COSTS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
Report printing and copies	0	page	$ 0.10	$ -
Report bindings, comb	0	each	$ 1.31	$ -
Overnight shipping	0	each	$ 19.83	$ -
Color copies	0	each	$ 1.00	$ -
Publish NOA in Newspaper	0	each	$ 549.36	$ -
			TOTAL:	**$ -**

MATERIALS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$ -**

EQUIPMENT

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$ -**

SUBCONTRACTS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$ -**

TRAVEL

DESCRIPTION	QUANTITY	DAYS	RATE	COST
Lodging	2	3	$ 55.00	$ 330.00
Meals	2	3	$ 30.00	$ 180.00
Rental Car	1	5	$ 45.04	$ 225.20
Airfare (Newport News-Grand Forks)	2	R/T	$ 705.00	$ 1,410.00
			TOTAL:	**$ 2,145.20**

Document Preparation

Contract Number:	F41624-01-D-8556
Task Order Number:	0048
Project Title:	EA for Construct Fire Station/Control Tower/RAPCON
Prepared by:	Joe Campo
Task 3:	Document Preparation

SUBTASKS:	Draft EA	Final EA	Subtotal Labor	TOTAL LABOR
LABOR:				
Program Manager	-	-	-	$ -
Project Manager	48.0	24.0	72.0	$ 6,257.52
Engineer - JL	8.0	8.0	16.0	$ 1,096.16
Ecologist/Biologist - SL	48.0	24.0	72.0	$ 6,508.08
Hazardous Waste Spec -SL	8.0	8.0	16.0	$ 1,054.88
CADD/GIS Operator - ML	8.0	8.0	16.0	$ 909.12
CADD/GIS Operator - JL	8.0	8.0	16.0	$ 595.04
Technical Writer/Editor - ML	8.0	8.0	16.0	$ 827.20
Clerical/Project Admin - ML	16.0	16.0	32.0	$ 1,220.80
TOTAL HOURS:	**152.0**	**104.0**	**256.0**	**$ 18,468.80**

OFFICE COSTS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
Report printing and copies	1,500	page	$ 0.10	$ 150.00
Report bindings, comb	32	each	$ 1.31	$ 41.92
Overnight shipping	2	each	$ 19.83	$ 39.66
Color copies	64	each	$ 1.00	$ 64.00
Publish NOA in Newspaper	1	each	$ 549.36	$ 549.36
			TOTAL:	**$ 844.94**

MATERIALS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$ -**

EQUIPMENT

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$ -**

SUBCONTRACTS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$ -**

TRAVEL

DESCRIPTION	QUANTITY	DAYS	RATE	COST
Lodging			$ 55.00	$ -
Meals			$ 30.00	$ -
Rental Car			$ 45.04	$ -
Airfare (Newport News-Grand Forks)		R/T	$ 705.00	$ -
			TOTAL:	**$ -**

Input

Contract Number:	F41624-01-D-8556
Task Order Number:	0048
Project Title:	EA for Construct Fire Station/Control Tower/RAPCON
Prepared by:	Joe Campo
Date Prepared:	28-Jan-03

GMI LABOR FFP	NAME	UNIT	FY03
Program Manager	Charysse Knotts/Ron Moore	hour	118.07
Project Manager	Joe Campo	hour	86.91
Architect - SL	tbd	hour	
Architect - ML	tbd	hour	58.94
Architect - JL	tbd	hour	
Engineer - SL	tbd	hour	105.36
Engineer - ML	tbd	hour	89.03
Engineer - JL	Troy Andersen	hour	68.51
Chemist - SL	tbd	hour	72.78
Chemist - ML	tbd	hour	60.64
Chemist - JL	tbd	hour	
Geologist - SL	tbd	hour	84.71
Geologist - ML	tbd	hour	74.14
Geologist - JL	tbd	hour	48.39
Hydrogeologist - SL	tbd	hour	
Hydrogeologist - ML	tbd	hour	95.31
Hydrogeologist - JL	tbd	hour	
Ecologist/Biologist - SL	Sandy Brinson	hour	90.39
Ecologist/Biologist - ML	tbd	hour	76.59
Ecologist/Biologist - JL	tbd	hour	56.92
Toxicologist - SL	tbd	hour	98.91
Toxicologist - ML	tbd	hour	
Toxicologist - JL	tbd	hour	
Computer Programmer - SL	tbd	hour	101.76
Computer Programmer - ML	tbd	hour	66.12
Computer Programmer - JL	tbd	hour	56.10
Urban Regional Planner - SL	tbd	hour	96.08
Urban Regional Planner - ML	tbd	hour	
Urban Regional Planner - JL	tbd	hour	
Engineering Technician - SL	tbd	hour	60.84
Engineering Technician - ML	tbd	hour	53.91
Engineering Technician - JL	tbd	hour	38.58
Hazardous Waste Spec -SL	JB Turley	hour	65.93
Hazardous Waste Spec - ML	tbd	hour	57.24
Hazardous Waste Spec - JL	tbd	hour	43.90
Drafts Person/Illustrator - SL	tbd	hour	63.29
Drafts Person/Illustrator - ML	tbd	hour	49.47
Drafts Person/Illustrator - JL	tbd	hour	42.68
CADD/GIS Operator - SL	tbd	hour	82.52
CADD/GIS Operator - ML	Anna Kenne	hour	56.82
CADD/GIS Operator - JL	Elizabeth Sartain	hour	37.19
Construction Supervisor - SL	tbd	hour	101.53
Construction Supervisor - ML	tbd	hour	71.38
Surveyor - SL	tbd	hour	
Surveyor - ML	tbd	hour	
Surveyor - JL	tbd	hour	
Estimator - SL	tbd	hour	120.13
Estimator - ML	tbd	hour	67.69
Estimator - JL	tbd	hour	
Contract Administrator - SL	tbd	hour	98.91
Contract Administrator - ML	tbd	hour	54.41
Contract Administrator - JL	tbd	hour	
Computer Analyst - SL	tbd	hour	94.53
Computer Analyst - ML	tbd	hour	76.47
Computer Analyst - JL	tbd	hour	56.68
Technical Writer/Editor - SL	tbd	hour	60.64
Technical Writer/Editor - ML	Patti Knowles	hour	51.70
Technical Writer/Editor - JL	tbd	hour	42.68
Word Processor	tbd	hour	37.80
Clerical/Project Admin - SL	tbd	hour	46.98
Clerical/Project Admin - ML	Phyllis Fletcher	hour	38.15
Clerical/Project Admin - JL	tbd	hour	30.86

Office Costs	Unit		Rate
Report printing and copies	page	$	0.10
Report bindings, comb	each	$	1.31
Overnight shipping	each	$	19.83
Color copies	each	$	1.00
Publish NOA in Newspaper	each	$	549.36

Material Costs	Unit	Rate

Equipment Costs	Unit	Rate

Subcontractor Costs	Unit	Rate

Travel Costs	Unit		Rate
Lodging	day	$	55.00
Meals	day	$	30.00
Mileage	mile	$	0.36
Rental Car	day	$	45.04
Airfare (Newport News-Grand Forks)	round trip	$	705.00

WBS Elements (if applicable)	
Task 1:	Coordination & Reporting
Task 2:	Site Survey
Task 3:	Document Preparation

Indirect Rate Applied to ODCs	5.00%
Profit Rate Applied to ODCs	9.00%

Cost Backup

PUBLISH NOA:

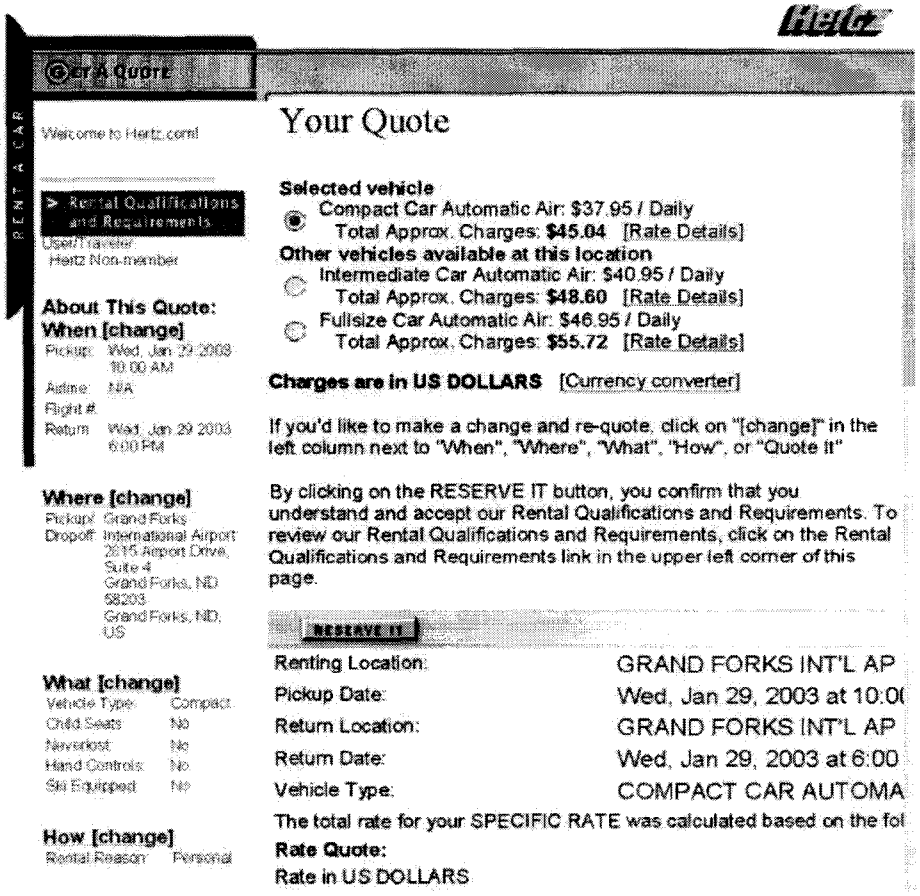
Publication of the Notice of Availability for the EA/FONSI in the *Grand Forks Herald* newspaper for 3 consecutive days as a 2" x 3" legal advertisement : $549.36. Point of Contact is Barbara Carlson at (701) 780-1166.

LODGING AND MEALS:

FY 2003 Domestic Per diem Rates (Effective October 1, 2002) (Includes changes through Nov 8, 2002)

STATE	MARKET DESTINATION	County Location	Seasonal Type	Seasonal Dates		Lodging Rate	M&IE Rate	Total
	CONUS, Standard rate: (Applies to all locations within CONUS not specifically listed below or encompassed by the boundary definition of a listed point. However, the standard CONUS rate applies to all locations within CONUS, including those defined below, for certain relocation subsistence allowances. See parts 302-4, 2-302, and 302-5 of this subtitle.)					55	30	85
ND	NORTH DAKOTA (See footnote 5)		Non-Seasonal					

RENTAL CAR:



AIRFARE:

Rates for airfares change daily, flights may be taken from PHF or ORF, and the shortest flying time is needed to arrive at the base before COB. The average RT airfare ($705) is used for the cost estimate.

from **$565**			Choose and continue
5:50 AM Depart Newport News (PHF) Arrive Grand Forks (GFK) **12:39 PM**	Mon **10-Mar** 7hr 49mn		**AirTran Airways** 901 / 850 **Northwest** 1669 Connect in Atlanta (ATL), Minneapolis (MSP)
from **$845**			Choose and continue
5:45 AM Depart Norfolk (ORF) Arrive Grand Forks (GFK) **12:00 PM**	Mon **10-Mar** 7hr 15mn		**Delta** 4339 / 1716 **Northwest** 3160 Connect in Atlanta (ATL), Minneapolis (MSP)

Project Cost Summary

ntract Number:	**F41624-01-D-8556**
ask Order Number:	**0048**
Project Title:	**EA for Construct Fire Station/Control Tower/RAPCON**
Prepared by:	**Joe Campo**
Date Prepared:	**30-Jan-03**

Top Level Summary of Major Cost Elements

Major Cost Elements	Amount
Labor	$ 29,466.92
Other Direct Costs	
Office Costs	$ 844.94
Materials	$ -
Equipment	$ -
Subcontractors	$ -
Travel	$ 2,485.20
Total Other Direct Costs	$ 3,330.14
Indirect Rate on ODCs (5%)	$ 166.51
Subtotal	$ 3,496.65
Profit Rate (9%)	$ 314.70
Total Task Order Cost	**$ 33,278.27**

Breakdown for Each Major Cost Element

Labor Category (FFP FY-02)	Quantity	Unit	Rate	Cost
Program Manager	8	hour	$ 118.07	$ 944.56
Project Manager	136	hour	$ 86.91	$ 11,819.76
Engineer - JL	16	hour	$ 68.51	$ 1,096.16
Ecologist/Biologist - SL	120	hour	$ 90.39	$ 10,846.80
Hazardous Waste Spec -SL	16	hour	$ 65.93	$ 1,054.88
CADD/GIS Operator - ML	16	hour	$ 56.82	$ 909.12
CADD/GIS Operator - JL	16	hour	$ 37.19	$ 595.04
Technical Writer/Editor - ML	16	hour	$ 51.70	$ 827.20
Clerical/Project Admin - ML	36	hour	$ 38.15	$ 1,373.40
TOTAL LABOR COST	**380**			**$ 29,466.92**

Office Costs	Quantity	Unit	Rate	Cost
Items				
Report printing and copies	1,500	page	$ 0.10	$ 150.00
Report bindings, comb	32	each	$ 1.31	$ 41.92
Overnight shipping	2	each	$ 19.83	$ 39.66
Color copies	64	each	$ 1.00	$ 64.00
Publish NOA in Newspaper	1	each	$ 549.36	$ 549.36
TOTAL OFFICE COSTS				**$ 844.94**

Material Costs	Quantity	Unit	Rate	Cost
TOTAL MATERIAL COSTS				**$ -**

Equipment Costs	Quantity	Unit	Rate	Cost
TOTAL EQUIPMENT COSTS				**$ -**

Subcontractor Costs	Quantity	Unit	Rate	Cost
TOTAL SUBCONTRACTOR COSTS				**$ -**

Travel Costs	Quantity	Unit	Rate	Cost
Items				
Lodging	10	day	$ 55.00	$ 550.00
Meals	10	day	$ 30.00	$ 300.00
Rental Car	5	day	$ 45.04	$ 225.20
Airfare (Newport News-Grand Forks)	2	round trip	$ 705.00	$ 1,410.00
TOTAL TRAVEL COSTS				**$ 2,485.20**

Task Cost Summary

Number:	F41624-01-D-8556
...ber Number:	0048
Project Title:	EA for Construct Fire Station/Control Tower/RAPCON
Prepared by:	Joe Campo
Date Prepared:	30-Jan-2003

			Task 1: Coordination & Reporting		Task 2: Site Survey		Task 3: Document Preparation		TASK ORDER Project Total	
LABOR		RATE	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST
Labor Category	Name	FY02								
Program Manager	Charysse Knotts/Ron M	$118.07	8	$ 944.56	0	$ -	0	$ -	8	$ 944.56
Project Manager	Joe Campo	$86.91	32	$ 2,781.12	32	$ 2,781.12	72	$ 6,257.52	136	$ 11,819.76
Engineer - JL	Troy Andersen	$68.51	0	$ -	0	$ -	16	$ 1,096.16	16	$ 1,096.16
Ecologist/Biologist - SL	Sandy Brinson	$90.39	16	$ 1,446.24	32	$ 2,892.48	72	$ 6,508.08	120	$ 10,846.80
Hazardous Waste Spec -SL	JB Turley	$65.93	0	$ -	0	$ -	16	$ 1,054.88	16	$ 1,054.88
CADD/GIS Operator - ML	Anna Kenne	$56.82	0	$ -	0	$ -	16	$ 909.12	16	$ 909.12
CADD/GIS Operator - JL	Elizabeth Sartain	$37.19	0	$ -	0	$ -	16	$ 595.04	16	$ 595.04
Technical Writer/Editor - ML	Patti Knowles	$51.70	0	$ -	0	$ -	16	$ 827.20	16	$ 827.20
Clerical/Project Admin - ML	Phyllis Fletcher	$38.15	4	$ 152.60	0	$ -	32	$ 1,220.80	36	$ 1,373.40
SUBTOTAL LABOR			**60**	**$ 5,324.52**	**64**	**$ 5,673.60**	**256**	**$ 18,468.80**	**380**	**$ 29,466.92**
OTHER DIRECT COSTS										
Office Costs				$ -		$ -		$ 844.94		$ 844.94
Materials				$ -		$ -		$ -		$ -
Equipment				$ -		$ -		$ -		$ -
Subcontractors				$ -		$ -		$ -		$ -
Travel				$ 340.00		$ 2,145.20		$ -		$ 2,485.20
SUBTOTAL OTHER DIRECT COSTS				**$ 340.00**		**$ 2,145.20**		**$ 844.94**		**$ 3,330.14**
SUBTOTAL ODCs				**$ 340.00**		**$ 2,145.20**		**$ 844.94**		$ 3,330.14
INDIRECT RATE APPLIED TO ODCs		5.00%		$ 17.00		$ 107.26		$ 42.25		$ 166.51
SUBTOTAL				$ 357.00		$ 2,252.46		$ 887.19		$ 3,496.65
PROFIT RATE ON ODCs		9.00%		$ 32.13		$ 202.72		$ 79.85		$ 314.70
SUBTOTAL				**$ 389.13**		**$ 2,455.18**		**$ 967.03**		**$ 3,811.35**
TOTAL ESTIMATED COST LABOR AND ODCs				**$ 5,713.65**		**$ 8,128.78**		**$ 19,435.83**		**$ 33,278.27**
ESTIMATED FIRM FIXED PRICE COST				**$ 5,713.65**		**$ 8,128.78**		**$ 19,435.83**		**$ 33,278.27**

Coordination & Reporting

ontract Number:	F41624-01-D-8556
Task Order Number:	0048
Project Title:	EA for Construct Fire Station/Control Tower/RAPCON
Prepared by:	Joe Campo
Task 1:	Coordination & Reporting

SUBTASKS:	Kickoff Mtg/Status Rpts	Agency Comm	Subtotal Labor	TOTAL LABOR
LABOR:				
Program Manager	8.0	-	8.0	$ 944.56
Project Manager	16.0	16.0	32.0	$ 2,781.12
Engineer - JL	-	-	-	$ -
Ecologist/Biologist - SL	8.0	8.0	16.0	$ 1,446.24
Hazardous Waste Spec -SL	-	-	-	$ -
CADD/GIS Operator - ML	-	-	-	$ -
CADD/GIS Operator - JL	-	-	-	$ -
Technical Writer/Editor - ML	-	-	-	$ -
Clerical/Project Admin - ML	4.0	-	4.0	$ 152.60
TOTAL HOURS:	**36.0**	**24.0**	**60.0**	**$ 5,324.52**

OFFICE COSTS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
Report printing and copies		page	$ 0.10	$ -
Report bindings, comb		each	$ 1.31	$ -
Overnight shipping		each	$ 19.83	$ -
Color copies		each	$ 1.00	$ -
Publish NOA in Newspaper		each	$ 549.36	$ -
			TOTAL:	**$ -**

MATERIALS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$ -**

EQUIPMENT

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$ -**

SUBCONTRACTS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$ -**

TRAVEL

DESCRIPTION	QUANTITY	DAYS	RATE	COST
Lodging	2	2	$ 55.00	$ 220.00
Meals	2	2	$ 30.00	$ 120.00
Rental Car	0	0	$ 45.04	$ -
Airfare (Newport News-Grand Forks)		R/T	$ 705.00	$ -
			TOTAL:	**$ 340.00**

Site Survey

Contract Number:	F41624-01-D-8556
Task Order Number:	0048
Project Title:	EA for Construct Fire Station/Control Tower/RAPCON
Prepared by:	Joe Campo
Task 2:	Site Survey

SUBTASKS:	Site Survey	Reporting	Subtotal Labor	TOTAL LABOR
LABOR:				
Program Manager	-	-	-	$ -
Project Manager	24.0	8.0	32.0	$ 2,781.12
Engineer - JL	-	-	-	$ -
Ecologist/Biologist - SL	24.0	8.0	32.0	$ 2,892.48
Hazardous Waste Spec -SL	-	-	-	$ -
CADD/GIS Operator - ML	-	-	-	$ -
CADD/GIS Operator - JL	-	-	-	$ -
Technical Writer/Editor - ML	-	-	-	$ -
Clerical/Project Admin - ML	-	-	-	$ -
TOTAL HOURS:	**48.0**	**16.0**	**64.0**	**$ 5,673.60**

OFFICE COSTS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
Report printing and copies	0	page	$ 0.10	$ -
Report bindings, comb	0	each	$ 1.31	$ -
Overnight shipping	0	each	$ 19.83	$ -
Color copies	0	each	$ 1.00	$ -
Publish NOA in Newspaper	0	each	$ 549.36	$ -
			TOTAL:	**$** -

MATERIALS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$** -

EQUIPMENT

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$** -

SUBCONTRACTS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$** -

TRAVEL

DESCRIPTION	QUANTITY	DAYS	RATE	COST
Lodging	2	3	$ 55.00	$ 330.00
Meals	2	3	$ 30.00	$ 180.00
Rental Car	1	5	$ 45.04	$ 225.20
Airfare (Newport News-Grand Forks)	2	R/T	$ 705.00	$ 1,410.00
			TOTAL:	**$ 2,145.20**

Document Preparation

›ntract Number:	F41624-01-D-8556
Task Order Number:	0048
Project Title:	EA for Construct Fire Station/Control Tower/RAPCON
Prepared by:	Joe Campo
Task 3:	Document Preparation

SUBTASKS:	Draft EA	Final EA	Subtotal Labor	TOTAL LABOR
LABOR:				
Program Manager	-	-	-	$ -
Project Manager	48.0	24.0	72.0	$ 6,257.52
Engineer - JL	8.0	8.0	16.0	$ 1,096.16
Ecologist/Biologist - SL	48.0	24.0	72.0	$ 6,508.08
Hazardous Waste Spec -SL	8.0	8.0	16.0	$ 1,054.88
CADD/GIS Operator - ML	8.0	8.0	16.0	$ 909.12
CADD/GIS Operator - JL	8.0	8.0	16.0	$ 595.04
Technical Writer/Editor - ML	8.0	8.0	16.0	$ 827.20
Clerical/Project Admin - ML	16.0	16.0	32.0	$ 1,220.80
TOTAL HOURS:	**152.0**	**104.0**	**256.0**	**$ 18,468.80**

OFFICE COSTS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
Report printing and copies	1,500	page	$ 0.10	$ 150.00
Report bindings, comb	32	each	$ 1.31	$ 41.92
Overnight shipping	2	each	$ 19.83	$ 39.66
Color copies	64	each	$ 1.00	$ 64.00
Publish NOA in Newspaper	1	each	$ 549.36	$ 549.36
			TOTAL:	**$ 844.94**

MATERIALS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$ -**

EQUIPMENT

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$ -**

SUBCONTRACTS

DESCRIPTION	QUANTITY	UNITS	RATE	COST
			TOTAL:	**$ -**

TRAVEL

DESCRIPTION	QUANTITY	DAYS	RATE	COST
Lodging			$ 55.00	$ -
Meals			$ 30.00	$ -
Rental Car			$ 45.04	$ -
Airfare (Newport News-Grand Forks)		R/T	$ 705.00	$ -
			TOTAL:	**$ -**

Input

ontract Number:	F41624-01-D-8556
ask Order Number:	0048
Project Title:	EA for Construct Fire Station/Control Tower/RAPCON
Prepared by:	Joe Campo
Date Prepared:	30-Jan-03

GMI LABOR FFP	NAME	UNIT	FY03
Program Manager	Charysse Knotts/Ron Moore	hour	118.07
Project Manager	Joe Campo	hour	86.91
Architect - SL	tbd	hour	
Architect - ML	tbd	hour	58.94
Architect - JL	tbd	hour	
Engineer - SL	tbd	hour	105.36
Engineer - ML	tbd	hour	89.03
Engineer - JL	Troy Andersen	hour	68.51
Chemist - SL	tbd	hour	72.78
Chemist - ML	tbd	hour	60.64
Chemist - JL	tbd	hour	
Geologist - SL	tbd	hour	84.71
Geologist - ML	tbd	hour	74.14
Geologist - JL	tbd	hour	48.39
Hydrogeologist - SL	tbd	hour	
Hydrogeologist - ML	tbd	hour	95.31
Hydrogeologist - JL	tbd	hour	
Ecologist/Biologist - SL	Sandy Brinson	hour	90.39
Ecologist/Biologist - ML	tbd	hour	76.59
Ecologist/Biologist - JL	tbd	hour	56.92
Toxicologist - SL	tbd	hour	98.91
Toxicologist - ML	tbd	hour	
Toxicologist - JL	tbd	hour	
Computer Programmer - SL	tbd	hour	101.76
Computer Programmer - ML	tbd	hour	66.12
Computer Programmer - JL	tbd	hour	56.10
Urban Regional Planner - SL	tbd	hour	96.08
Urban Regional Planner - ML	tbd	hour	
Urban Regional Planner - JL	tbd	hour	
Engineering Technician - SL	tbd	hour	60.84
Engineering Technician - ML	tbd	hour	53.91
Engineering Technician - JL	tbd	hour	38.58
Hazardous Waste Spec -SL	JB Turley	hour	65.93
Hazardous Waste Spec - ML	tbd	hour	57.24
Hazardous Waste Spec - JL	tbd	hour	43.90
Drafts Person/Illustrator - SL	tbd	hour	63.29
Drafts Person/Illustrator - ML	tbd	hour	49.47
Drafts Person/Illustrator - JL	tbd	hour	42.68
CADD/GIS Operator - SL	tbd	hour	82.52
CADD/GIS Operator - ML	Anna Kenne	hour	56.82
CADD/GIS Operator - JL	Elizabeth Sartain	hour	37.19
Construction Supervisor - SL	tbd	hour	101.53
Construction Supervisor - ML	tbd	hour	71.38
Surveyor - SL	tbd	hour	
Surveyor - ML	tbd	hour	
Surveyor - JL	tbd	hour	
Estimator - SL	tbd	hour	120.13
Estimator - ML	tbd	hour	67.69
Estimator - JL	tbd	hour	
Contract Administrator - SL	tbd	hour	98.91
Contract Administrator - ML	tbd	hour	54.41
Contract Administrator - JL	tbd	hour	
Computer Analyst - SL	tbd	hour	94.53
Computer Analyst - ML	tbd	hour	76.47
Computer Analyst - JL	tbd	hour	56.68
Technical Writer/Editor - SL	tbd	hour	60.64
Technical Writer/Editor - ML	Patti Knowles	hour	51.70
Technical Writer/Editor - JL	tbd	hour	42.68
Word Processor	tbd	hour	37.80
Clerical/Project Admin - SL	tbd	hour	46.98
Clerical/Project Admin - ML	Phyllis Fletcher	hour	38.15
Clerical/Project Admin - JL	tbd	hour	30.86

Office Costs	Unit		Rate
Report printing and copies	page	$	0.10
Report bindings, comb	each	$	1.31
Overnight shipping	each	$	19.83
Color copies	each	$	1.00
Publish NOA in Newspaper	each	$	549.36

Material Costs	Unit	Rate

Equipment Costs	Unit	Rate

Subcontractor Costs	Unit	Rate

Travel Costs	Unit		Rate
Lodging	day	$	55.00
Meals	day	$	30.00
Mileage	mile	$	0.36
Rental Car	day	$	45.04
Airfare (Newport News-Grand Forks)	round trip	$	705.00

WBS Elements (if applicable)	
Task 1:	Coordination & Reporting
Task 2:	Site Survey
Task 3:	Document Preparation

Indirect Rate Applied to ODCs	5.00%
Profit Rate Applied to ODCs	9.00%

Cost Backup

PUBLISH NOA:

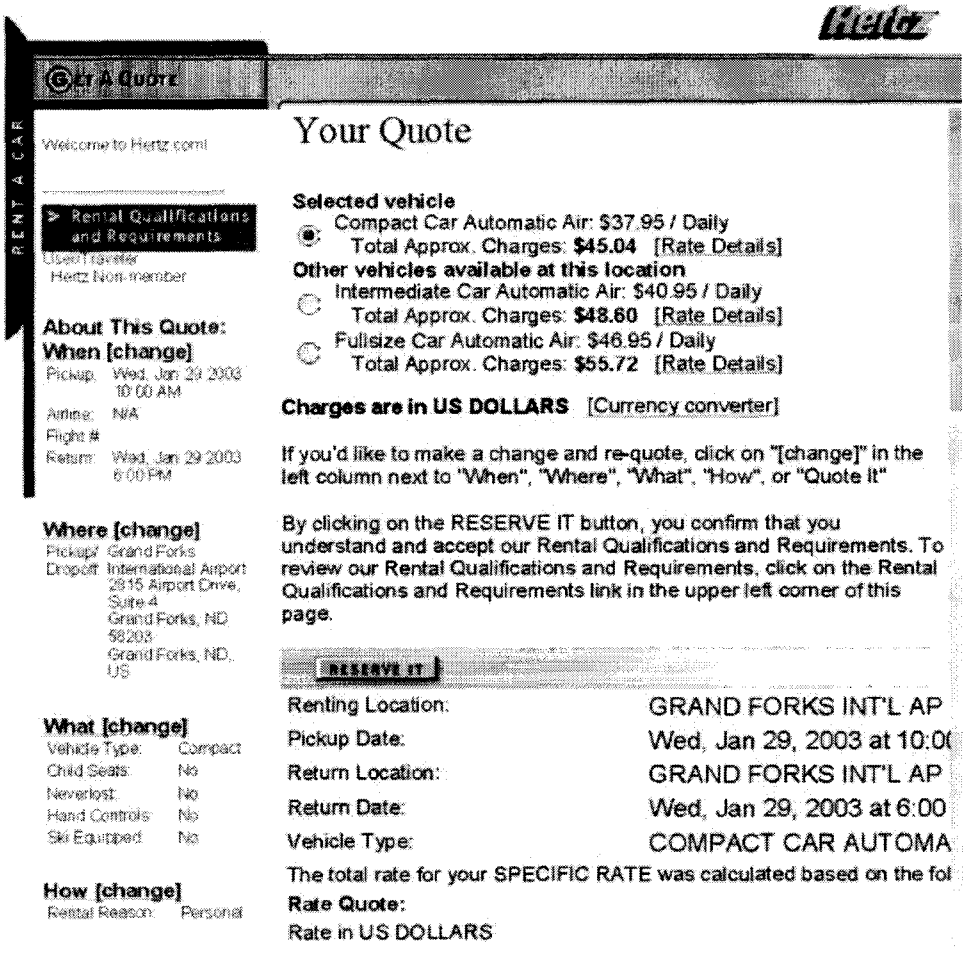
Publication of the Notice of Availability for the EA/FONSI in the *Grand Forks Herald* newspaper for 3 consecutive days as a 2" x 3" legal advertisement : $549.36. Point of Contact is Barbara Carlson at (701) 780-1166.

LODGING AND MEALS:

FY 2003 Domestic Per diem Rates (Effective October 1, 2002) (Includes changes through Nov 8, 2002)

STATE	MARKET DESTINATION	County Location	Seasonal Type	Seasonal Dates		Lodging Rate	M&IE Rate	Total
	CONUS, Standard rate: (Applies to all locations within CONUS not specifically listed below or encompassed by the boundary definition of a listed point. However, the standard CONUS rate applies to all locations within CONUS, including those defined below, for certain relocation subsistence allowances. See parts 302-4, 2-302, and 302-5 of this subtitle.)					55	30	85
ND	NORTH DAKOTA (See footnote 5)		Non-Seasonal					

RENTAL CAR:



AIRFARE:

Rates for airfares change daily, flights may be taken from PHF or ORF, and the shortest flying time is needed to arrive at the base before COB. The average RT airfare ($705) is used for the cost estimate.

from $565			Choose and continue
5:50 AM Depart Newport News (PHF) Arrive Grand Forks (GFK) **12:39 PM**	Mon **10-Mar** 7hr 49mn		**AirTran Airways** 901 / 850 **Northwest** 1669 Connect in Atlanta (ATL), Minneapolis (MSP)
from $845			Choose and continue
5:45 AM Depart Norfolk (ORF) Arrive Grand Forks (GFK) **12:00 PM**	Mon **10-Mar** 7hr 15mn		**Delta** 4339 / 1716 **Northwest** 3160 Connect in Atlanta (ATL), Minneapolis (MSP)

File 9B CEVH
RCS # 03-012

ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH ORDER/AGREEMENT NO.	2. DELIVERY ORDER/ CALL NO.	3. DATE OF ORDER/CALL (YYYYMMMDD)	4. REQUISITION/PURCH REQUEST NO.	5. PRIORITY
F41624-01-D-8556	0048	12 FEB 2003	SEE SCHEDULE	DO-C9

6. ISSUED BY CODE FA8903
AIR FORCE MATERIEL COMMAND
311TH HUMAN SYSTEMS WING/PKV
3300 SIDNEY BROOKS
BROOKS CITY BASE TX 78235-5112
SHARON E. VACA 536-5766
sharon.vaca@brooks.af.mil

7. ADMINISTERED BY *(If Other than 6)* CODE S4402A
DCM DALLAS
1200 MAIN ST
DALLAS TX 75202-4399

SCD: C PAS: (NONE)

8. DELIVERY FOB
X DESTINATION
OTHER *(See Schedule if other)*

9. CONTRACTOR CODE 0GZ52 FACILITY
NAME AND ADDRESS
GEO-MARINE, INC.
550 EAST 15TH STREET
PLANO TX 75074

10. DELIVER TO FOB POINT BY *(Date)* (YYYYMMMDD) SEE SCHEDULE

11. X IF BUSINESS IS
X SMALL
SMALL DISADVANTAGED WOMEN-OWNED

12. DISCOUNT ITEMS
N

13. MAIL INVOICES TO ADDRESS IN BLOCK
SEE BLOCK 15 (PAYMENT OFFICE)

14. SHIP TO CODE
SEE SCHEDULE

15. PAYMENT WILL BE MADE BY CODE HQ0339
DFAS-CO/WEST ENTITLEMENT OPER
P O BOX 182381
COLUMBUS OH 43218-2381

EFT:T

MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.

16. TYPE OF ORDER
DELIVERY/CALL: X
PURCHASE:

This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.

Reference your _____ furnish the following on items specified herein.

ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.

NAME OF CONTRACTOR | SIGNATURE | TYPED NAME AND TITLE | DATE SIGNED(YYYYMMMDD)

☐ If this box is marked, supplier must sign Acceptance and return the following number of copies:

17. ACCOUNTING AND APPROPRIATION DATA/LOCAL USE
SEE SCHEDULE

18. ITEM NO.	19. SCHEDULE OF SUPPLIES/SERVICES	20. QUANTITY ORDERED/ ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT

*If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.

24. UNITED STATES OF AMERICA
GERARDO VILLARREAL
18 FEB 2003
CONTRACTING/ORDERING OFFICER

25. TOTAL $33,278.00

29. DIFFERENCES

26. QUANTITY IN COLUMN 20 HAS BEEN
☐ INSPECTED ☐ RECEIVED ☐ ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED

DATE SIGNATURE AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE

27. SHIP NO. ☐ PARTIAL ☐ FINAL

28. D.O. VOUCHER NO.

30. INITIALS

32. PAID BY

33. AMOUNT VERIFIED CORRECT FOR

32. PAYMENT ☐ COMPLETE ☐ PARTIAL ☐ FINAL

34. CHECK NUMBER

36. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT.

DATE SIGNATURE AND TITLE OF CERTIFYING OFFICER

35. BILL OF LADING

37. RECEIVED AT	38. RECEIVED BY *(Print)*	39. DATE RECEIVED (YYYYMMMDD)	40. TOTAL CONTAINERS	41. S/R ACCOUNT NO.	42. S/R VOUCHER NO.

1. In accordance with the provisions and the authority of the Ordering Procedures Clause H024 of the Basic Contract F41624-01-D-8556 and this Task Order 0048, the contractor shall accomplish the effort described in the Statement of Work (SOW) dated 23 Jan 2003, attached hereto for a total firm fixed price amount of $33,278.00.

SECTION B - SUPPLIES OR SERVICES - See Page 3

SECTION C - THE DESCRIPTION/SPECIFICATIONS:

The work to be performed will be in accordance with the Basic Contract SOW as implemented by the attached Statement of Work (SOW) dated 23 Jan 2003 entitled "Environmental Assessment For Construct Fire Station/Control Tower/RAPCON Grand Forks AFB, North Dakota."

SECTION D: PACKAGING AND MARKING:

Each shipment of data shall be clearly marked to show the following information:

SHIP TO: HQ AFCEE/ECS
ATTN: Robert Lopez
3300 Sidney Brooks
Brooks City-Base, TX 78235-5112

MARK FOR: Contract Number F41624-01-D-8556
Task Order Number: 0048
Item Number: **
CDRL Sequence Number: **
(**) As Applicable

SECTION E - INSPECTION AND ACCEPTANCE:

The Task Order Contracting Officer's Representative will perform inspection and acceptance of all services and products ordered under this Task Order (COR).

All invoices submitted for services performed under CLIN 0001 shall be submitted to the COR. a "Certificate of Satisfactory Performance" as follows shall be attached for approval by the COR.

"This is to certify that services set forth herein were performed for Task Order F41624-01-D-8556-0048 during the period (State Period)."

Contractor's Authorized Representative _____ Date _____

The certification must be signed and dated by the Contractor's Authorized Representative. The COR will designate acceptance of services by signing the "Certificate of Satisfactory Performance." When the contractor submits the invoice for certification, one copy shall be forwarded to 311 HSW/PKVAB, 3300 Sidney Brooks, Brooks City-Base, TX 78235-5112.

SECTION F - DELIVERY SCHEDULE - See Page 3

SECTION G - ACCOUNTING AND APPROPRIATION DATA - See Page 4

SECTION J - LIST OF ATTACHMENTS - See Page 5

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
		1	$33,278.00
		Lot	$33,278.00
	Noun:	ENIRONMENTAL ASSESSMENT FOR CONSTRUCT FIRE STATION/CONTROL TOWER/RAPCON	
	ACRN:	9	
	NSN:	N - Not Applicable	
	Contract type:	J - FIRM FIXED PRICE	
	Inspection:	DESTINATION	
	Acceptance:	DESTINATION	
	FOB:	DESTINATION	
	Descriptive Data:		

The contractor shall perform work in accordance with Statement of Work dated 23 Jan 03 and the Description/Specification/Work Statement of the Basic Contract.

000101				
	Noun:	Funding Info Only		
	ACRN:	AA	$33,278.00	
		1		NSP
		Lot		NSP
	Noun:	DATA		
	ACRN:	U		
	NSN:	N - Not Applicable		
	Contract type:	J - FIRM FIXED PRICE		
	Inspection:	DESTINATION		
	Acceptance:	DESTINATION		
	FOB:	DESTINATION		
	Descriptive Data:			

The contractor shall furnish data in accordance with the DD Form 1423's contained in Exhibits A and B, Contract Data Requirements List (CDRLs) as implemented by this task order's SOW dated 23 Jan 03 and the SOW of the Basic Contract. (The price of CLIN 0004 is included in CLIN 0001)

ITEM	SUPPLIES SCHEDULE DATA	QTY	SHIP TO	MARK FOR	TRANS PRI	DATE
		1	FA8903			31 Aug 2003
	Noun:	ENIRONMENTAL ASSESSMENT FOR CONSTRUCT FIRE STATION/CONTROL TOWER/RAPCON				
	ACRN:	9				
		1	FA8903			ASREQ
	Noun:	DATA				
	ACRN:	U				

ACRN	Appropriation/Lmt Subhead/Supplemental Accounting Data	Obligation Amount
AA		$33,278.00

57 33400 303 65MZ 244416 020000 534BJ 41853F 525700 F25700

Funding breakdown:	On CLIN 000101:	$33,278.00
PR/MIPR:	FY76240390370	$33,278.00

Descriptive data:
PR COMPLETE
AF 616 S3203105; Issued 8 Jan 03; Expires 15 Sep 03
AFCEE Project # JFSD20030027
WO: A43090

DOCUMENT	PGS	DATE	TITLE
EXHIBIT A	5	21 JAN 2003	CONTRACT DATA REQUIREMENTS LIST (DD FORM 1423)
EXHIBIT B	3	21 JAN 2003	CONTRACT DATA REQUIREMENTS LIST (DD FORM 1423)
ATTACHMENT 1	7	23 JAN 2003	STATEMENT OF WORK
ATTACHMENT 2	2	11 FEB 2003	CONTRACTING OFFICER REPRESENTATIVE APPOINTMENT LETTER
ATTACHMENT 3	1	16 JAN 2003	BASE SUPPORT LETTER

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY
0004	A	TDP ____ TM ____ OTHER MGMT

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
ENV MINOR CONSTRUCTION/OPERS & SRV	F41624-01-D-8556/0048	GEO-MARINE, INC.

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A008	TECHNICAL AND MANAGEMENT WORK PLAN	PROJECT ACTIVITIES WORK PLAN

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MGMT-81117	SOW PARA 4.10	AFCEE/ECE

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	ONE/R	BLOCK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A		N/A	BLOCK 16

15. REMARKS

Block 4: DID tailoring: Delete para 10.2.7.

Blocks 12 & 13: Submit draft five days after Notice to Proceed at the Kick-off meeting. The contractor shall submit final within five days of receipt of government comments.

Block 14: Reproducible copy shall be on compact disk (CD) utilizing Microsoft Office 2000 Suite in IBM compatible format.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
AFCEE/MSCD	LT	LT	0
HSW/PKVAB	0	LT	0
SEE BLOCK 16			
AFCEE/ECE	1	1	1
BASE POC	1	1	1
15. TOTAL	2	2	2

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
BUCK, KATHY	1/21/2003	ROBERT L. LOPEZ, AFCEE/ECE	1/21/2003

17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
N/A	NSP

(COMPUTER GENERATED)

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY
0004	A	TDP ____ TM ____ OTHER ____ MISC

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
ENV MINOR CONSTRUCTION/OPERS & SR\	F41624-01-D-8556/0048	GEO-MARINE, INC.

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A013A	SCIENTIFIC AND TECHNICAL REPORTS	DESCRIPTION OF PROPOSED ACTION AND ALTERNATIVES

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MISC-80711A	SOW PARA 6.0	AFCEE/ECE

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	ONE/R	BLOCK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A		N/A	BLOCK 16

15. REMARKS

Block 1: DID tailoring: Para 10.3 - second sentence does not apply.

Blocks 12 & 13: Submit draft fifty days after Notice to Proceed. The government will require ten days for review of draft. The contractor shall incorporate government comments and submit final ten days after receipt of government comments.

Block 14: Reproducible copy shall be on compact disk (CD) utilizing Microsoft Office 2000 Suite in IBM compatible format.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
AFCEE/MSCD	LT	LT	0
HSW/PKVAB	0	LT	0
SEE BLOCK 16			
AFCEE/ECE	2	1	0
BASE POC	8	3	1
15. TOTAL	10	4	1

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
BUCK, KATHY	1/21/2003	ROBERT L. LOPEZ, AFCEE/ECE	1/21/2003

17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
N/A	NSP

(COMPUTER GENERATED)

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY
0004	A	TDP ____ TM ____ OTHER ____ MISC

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
ENV MINOR CONSTRUCTION/OPERS & SR\	F41624-01-D-8556/0048	GEO-MARINE, INC.

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A013B	SCIENTIFIC AND TECHNICAL REPORTS	ENVIRONMENTAL ASSESSMENT

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MISC-80711A	SOW PARA 6.0	AFCEE/ECE

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	ONE/R	BLOCK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A		N/A	BLOCK 16

15. REMARKS

Block 1: DID tailoring: Para 10.3 - second sentence does not apply.

Blocks 12 & 13: Submit draft 80 days after notice to proceed. The Air Force will require 10 days for review of draft. The contractor shall incorporate government comments and submit final draft 10 days after receipt of government comments. The Air Force will require 5 days for review of final draft. The Agency review will require an additional 45 days. The contractor shall incorporate agency comments and resubmit final draft 5 days after receipt of agency comments. The Air Force will require 45 days to review revised final draft. Public Comment Period of 30 days begins 5 days after receipt of Air Force approval to release. The contractor will submit final 15 days after close of public comment period.

Block 14: Reproducible copy shall be on compact disk (CD) utilizing Microsoft Office 2000 Suite in IBM compatible format.

DISTRO:

	ECE	MSCD	PKVA	BASE POC
DRAFT EA	3	LT	LT	5
DRAFT (FINAL) EA	2	LT	LT	4
REV DRAFT (FINAL) EA Public	2	LT	LT	4
REV DRAFT (FINAL) EA	2	LT	LT	4
FINAL EA	1	LT	LT	5
REPRO	1	LT	0	1

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
SEE BLOCK 16			
16. TOTAL →			

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
BUCK, KATHY	1/21/2003	ROBERT L. LOPEZ, AFCEE/ECE	1/21/2003

17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
N/A	NSP

(COMPUTER GENERATED)

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY
0004	A	TDP ____ TM ____ OTHER ____ MISC

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
ENV MINOR CONSTRUCTION/OPERS & SR\	F41624-01-D-8556/0048	GEO-MARINE, INC.

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A013C	SCIENTIFIC AND TECHNICAL REPORTS	FINDINGS OF NO SIGNIFICANT IMPACT

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MISC-80711A	SOW PARA 6.0	AFCEE/ECE

7. DD 250 REQ	8. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	ONE/R	BLOCK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A		N/A	BLOCK 16

15. REMARKS

Block 1: DID tailoring: Para 10.3 - second sentence does not apply.

Blocks 12 & 13: Submit draft 80 days after notice to proceed. The Air Force will require 10 days for review of draft. The contractor shall incorporate government comments and submit final draft 10 days after receipt of government comments. The Air Force will require 5 days for review of final draft. The Agency review will require an additional 45 days. The contractor shall incorporate agency comments and resubmit final draft 5 days after receipt of agency comments. The Air Force will require 45 days to review revised final draft. Public Comment Period of 30 days begins 5 days after receipt of Air Force approval to release. The contractor will submit final 15 days after close of public comment period.

Block 14: Reproducible copy shall be on compact disk (CD) utilizing Microsoft Office 2000 Suite in IBM compatible format.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
SEE BLOCK 16			
AFCEE/MSCD	LT	LT	0
HSW/PKVAB	0	LT	0
AFCEE/ECE	2	1	1
BASE POC	5	5	1
15. TOTAL	7	6	2

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
BUCK, KATHY	1/21/2003	ROBERT L. LOPEZ, AFCEE/ECE	1/21/2003

17. PRICE GROUP	16. ESTIMATED TOTAL PRICE
N/A	NSP

(COMPUTER GENERATED)

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY
0004	A	TDP ____ TM ____ OTHER ____ MISC

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
ENV MINOR CONSTRUCTION/OPERS & SR	F41624-01-D-8556/0048	GEO-MARINE, INC.

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A014	SITE SURVEY REPORT	N/A

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MISC-81381	SOW PARA 4.16	AFCEE/ECE

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	ONE/R	BLOCK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A		N/A	BLOCK 16

15. REMARKS

Blocks 12 & 13: Submit draft 10 days after site visit. The government will require 5 days for review of draft. The contractor shall incorporate government comments and submit final 5 days after receipt of government comments.

Block 14: Reproducible copy shall be on compact disk (CD) utilizing Microsoft Office 2000 Suite in IBM compatible format.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
AFCEE/MSCD	LT	LT	0
HSW/PKVAB	0	LT	0
BASE POC	2	2	1
SEE BLOCK 16			
AFCEE/ECE	1	1	1
15. TOTAL →	3	3	2

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
BUCK, KATHY	1/21/2003	ROBERT L. LOPEZ, AFCEE/ECE	1/21/2003

17. PRICE GROUP	16. ESTIMATED TOTAL PRICE
N/A	NSP

(COMPUTER GENERATED)

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY
0004	A	TDP ____ TM ____ OTHER MGMT

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
ENV MINOR CONSTRUCTION/OPERS & SR\	F41624-01-D-8556/0048	GEO-MARINE, INC.

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A008	TECHNICAL AND MANAGEMENT WORK PLAN	PROJECT ACTIVITIES WORK PLAN

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MGMT-81117	SOW PARA 4.10	AFCEE/ECE

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	ONE/R	BLOCK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A		N/A	BLOCK 16

15. REMARKS

Block 4: DID tailoring: Delete para 10.2.7.

Blocks 12 & 13: Submit draft five days after Notice to Proceed at the Kick-off meeting. The contractor shall submit final within five days of receipt of government comments.

Block 14: Reproducible copy shall be on compact disk (CD) utilizing Microsoft Office 2000 Suite in IBM compatible format.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Rep	Final Repro
AFCEE/MSCD	LT	LT	0
HSW/PKVAB	0	LT	0
SEE BLOCK 16			
AFCEE/ECE	1	1	1
BASE POC	1	1	1
15. TOTAL	2	2	2

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
BUCK, KATHY	1/21/2003	ROBERT L. LOPEZ, AFCEE/ECE	1/21/2003

17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
N/A	NSP

(COMPUTER GENERATED)

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY
0004	A	TDP ____ TM ____ OTHER ____ MISC

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
ENV MINOR CONSTRUCTION/OPERS & SR	F41624-01-D-8556/0048	GEO-MARINE, INC.

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A013A	SCIENTIFIC AND TECHNICAL REPORTS	DESCRIPTION OF PROPOSED ACTION AND ALTERNATIVES

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MISC-80711A	SOW PARA 6.0	AFCEE/ECE

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	ONE/R	BLOCK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A		N/A	BLOCK 16

16. REMARKS

Block 1: DID tailoring: Para 10.3 - second sentence does not apply.

Blocks 12 & 13: Submit draft fifty days after Notice to Proceed. The government will require ten days for review of draft. The contractor shall incorporate government comments and submit final ten days after receipt of government comments.

Block 14: Reproducible copy shall be on compact disk (CD) utilizing Microsoft Office 2000 Suite in IBM compatible format.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
AFCEE/MSCD	LT	LT	0
HSW/PKVAB	0	LT	0
SEE BLOCK 16			
AFCEE/ECE	2	1	0
BASE POC	8	3	1
15. TOTAL →	10	4	1

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
BUCK, KATHY	1/21/2003	ROBERT L. LOPEZ, AFCEE/ECE	1/21/2003

17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
N/A	NSP

(COMPUTER GENERATED)

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY
0004	A	TDP ____ TM ____ OTHER MISC

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
ENV MINOR CONSTRUCTION/OPERS & SR\	F41624-01-D-8556/0048	GEO-MARINE, INC.

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A013B	SCIENTIFIC AND TECHNICAL REPORTS	ENVIRONMENTAL ASSESSMENT

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MISC-80711A	SOW PARA 6.0	AFCEE/ECE

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION
LT		ONE/R	BLOCK 16	
8. APP CODE	A	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE
A		N/A	BLOCK 16	

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
SEE BLOCK 16			

15. REMARKS

Block 1: DID tailoring: Para 10.3 - second sentence does not apply.

Blocks 12 & 13: Submit draft 80 days after notice to proceed. The Air Force will require 10 days for review of draft. The contractor shall incorporate government comments and submit final draft 10 days after receipt of government comments. The Air Force will require 5 days for review of final draft. The Agency review will require an additional 45 days. The contractor shall incorporate agency comments and resubmit final draft 5 days after receipt of agency comments. The Air Force will require 45 days to review revised final draft. Public Comment Period of 30 days begins 5 days after receipt of Air Force approval to release. The contractor will submit final 15 days after close of public comment period.

Block 14: Reproducible copy shall be on compact disk (CD) utilizing Microsoft Office 2000 Suite in IBM compatible format.

DISTRO:

	ECE	MSCD	PKVA	BASE POC
DRAFT EA	3	LT	LT	5
DRAFT (FINAL) EA	2	LT	LT	4
REV DRAFT (FINAL) EA Public	2	LT	LT	4
REV DRAFT (FINAL) EA	2	LT	LT	4
FINAL EA	1	LT	LT	5
REPRO	1	LT	0	1

16. TOTAL

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
BUCK, KATHY	1/21/2003	ROBERT L. LOPEZ, AFCEE/ECE	1/21/2003

17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
N/A	NSP

(COMPUTER GENERATED)

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY
0004	A	TDP ____ TM ____ OTHER MISC

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
ENV MINOR CONSTRUCTION/OPERS & SR\	F41624-01-D-8556/0048	GEO-MARINE, INC.

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A013C	SCIENTIFIC AND TECHNICAL REPORTS	FINDINGS OF NO SIGNIFICANT IMPACT

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MISC-80711A	SOW PARA 6.0	AFCEE/ECE

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	ONE/R	BLOCK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A		N/A	BLOCK 16

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
SEE BLOCK 16			
AFCEE/MSCD	LT	LT	0
HSW/PKVAB	0	LT	0
AFCEE/ECE	2	1	1
BASE POC	5	5	1
15. TOTAL →	7	6	2

16. REMARKS

Block 1: DID tailoring: Para 10.3 - second sentence does not apply.

Blocks 12 & 13: Submit draft 80 days after notice to proceed. The Air Force will require 10 days for review of draft. The contractor shall incorporate government comments and submit final draft 10 days after receipt of government comments. The Air Force will require 5 days for review of final draft. The Agency review will require an additional 45 days. The contractor shall incorporate agency comments and resubmit final draft 5 days after receipt of agency comments. The Air Force will require 45 days to review revised final draft. Public Comment Period of 30 days begins 5 days after receipt of Air Force approval to release. The contractor will submit final 15 days after close of public comment period.

Block 14: Reproducible copy shall be on compact disk (CD) utilizing Microsoft Office 2000 Suite in IBM compatible format.

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
BUCK, KATHY	1/21/2003	ROBERT L. LOPEZ, AFCEE/ECE	1/21/2003

17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
N/A	NSP

(COMPUTER GENERATED)

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY
0004	A	TDP ____ TM ____ OTHER MISC

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
ENV MINOR CONSTRUCTION/OPERS & SR\	F41624-01-D-8556/0048	GEO-MARINE, INC.

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A014	SITE SURVEY REPORT	N/A

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MISC-81381	SOW PARA 4.16	AFCEE/ECE

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	ONE/R	BLOCK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A		N/A	BLOCK 16

16. REMARKS

Blocks 12 & 13: Submit draft 10 days after site visit. The government will require 5 days for review of draft. The contractor shall incorporate government comments and submit final 5 days after receipt of government comments.

Block 14: Reproducible copy shall be on compact disk (CD) utilizing Microsoft Office 2000 Suite in IBM compatible format.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
AFCEE/MSCD	LT	LT	0
HSW/PKVAB	0	LT	0
BASE POC	2	2	1
SEE BLOCK 16			
AFCEE/ECE	1	1	1
15. TOTAL	3	3	2

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
BUCK, KATHY	1/21/2003	ROBERT L. LOPEZ, AFCEE/ECE	1/21/2003

17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
N/A	NSP

(COMPUTER GENERATED)

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY
0004	B	TDP ____ TM ____ OTHER ADMN

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
ENV MINOR CONSTRUCTION/OPERS & SR	F41624-01-D-8556/0048	GEO-MARINE, INC.

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
B001	CONFERENCE MINUTES	N/A

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-ADMN-81250A	SOW PARA 4.1	AFCEE/ECE

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	ASREQ	BLOCK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A		N/A	BLOCK 16

15. REMARKS

Block 4: Para 10.1a(2) - Include Government Project number, Contract number, and Task Order number.

Block 11: Provide date of meeting.

Blocks 12 & 13: Submit draft minutes 10 days after meeting. The government will require two (2) days for review of draft. The contractor shall incorporate government comments and submit final within two (2) days of receipt of government comments.

Block 14: Reproducible copy shall be on compact disk (CD) utilizing Microsoft Office 2000 Suite in IBM compatible format.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
AFCEE/MSCD	LT	LT	0
HSW/PKVAB	0	LT	0
BASE POC	2	2	1
SEE BLOCK 16			
AFCEE/ECE	1	1	1
15. TOTAL →	3	3	2

16. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
BUCK, KATHY	1/21/2003	ROBERT L. LOPEZ, AFCEE/ECE	1/21/2003

17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
N/A	NSP

(COMPUTER GENERATED)

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY
0004	B	TDP ____ TM ____ OTHER MGMT

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
ENV MINOR CONSTRUCTION/OPERS & SR	F41624-01-D-8556/0048	GEO-MARINE, INC.

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
B005	CONTRACTOR'S PROGRESS, STATUS AND MANAGEMENT REPORT	N/A

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MGMT-80227	SOW PARA 4.7	AFCEE/ECE

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	MTHLY	BLOCK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
N/A		BLOCK 16	BLOCK 16

15. REMARKS

Block 4: DID Tailoring; Paragraphs 10.3g, 10.3h, and 10.3i do not apply.

Block 11: The "as of" date shall be 30 days after the effective date of the task order or the end of the contractor's first cost accounting period, whichever occurs first. Subsequent reports shall be as of the contractor's monthly cost accounting period end date.

Blocks 12 and 13: Submit not later than twenty (20) days after date specified in Block 11.

Block 14: Reproducible copy shall be on compact disk (CD) utilizing Microsoft Office 2000 Suite in IBM compatible format.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
SEE BLOCK 16			
AFCEE/MSCD	0	LT	0
HSW/PKVAB	0	1	0
BASE POC	0	1	1
AFCEE/ECE	0	1	1
15. TOTAL →	0	3	2

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
BUCK, KATHY	1/21/2003	ROBERT L. LOPEZ, AFCEE/ECE	1/21/2003

17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
N/A	NSP

(COMPUTER GENERATED)

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY
0004	B	TDP ____ TM ____ OTHER MISC

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
ENV MINOR CONSTRUCTION/OPERS & SR\	F41624-01-D-8556/0048	GEO-MARINE, INC.

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
B013	DIGITAL IMAGING	N/A

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MISC-81579	SOW PARA 7.2	AFCEE/ECE

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	A	ASREQ	BLOCK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
A		N/A	BLOCK 16

15. REMARKS

Blocks 12 & 13: Submit with technical reports as required.

Block 14: All draft and final copies are to be color digital photographs. Format to be determined in the Technical Interchange Meeting.

Number and distribution of copies is the same as for the technical report for which they are submitted with.

14. DISTRIBUTION	b. COPIES		
a. ADDRESSEE	Draft	Final	
		Reg	Repro
SEE BLOCK 16			
15. TOTAL ⟹			

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
BUCK, KATHY	1/21/2003	ROBERT L. LOPEZ, AFCEE/ECE	1/21/2003

17. PRICE GROUP	16. ESTIMATED TOTAL PRICE
N/A	NSP

(COMPUTER GENERATED)

Section C – Statement of Work

Statement of Work

Environmental Assessment
For
Construct Fire Station/Control Tower/RAPCON

Grand Forks AFB, North Dakota

1.0 SCOPE

1.1 INTRODUCTION

The purpose of this Air Force Center for Environmental Excellence (HQ AFCEE) Task Order (TO) is to provide Environmental Impact Analysis Process (EIAP) support to 319 CES/CEVA at Grand Forks AFB. Support consists of an Environmental Assessment (EA) of the proposed construction of a fire station, control tower, and radar approach control facility (RAPCON). The fire station and air traffic control tower are severely undersized. The main fire station doesn't meet airfield response time requirements and the use of a satellite fire station is inefficient. The air traffic control tower is a third the size of most Air Force tower cabs and does not meet the current Air Force or Federal Aviation Administration standards. The existing RAPCON is outdated and inefficient because of its separation from the control tower. The EA shall provide environmental analyses for three alternatives: preferred alternative to construct a new fire station and control tower/RAPCON, an alternative location for siting and the no action alternative. The EA shall provide sufficient evidence and analysis for determining whether the decision-maker should prepare an Environmental Impact Statement or prepare and sign a Finding of No Significant Impact (FONSI). The contractor shall prepare appropriate notification for public review and comments on the final document.

Other environmental services include: data collection, preparation of a draft and final Description of the Proposed Action and Alternatives (DOPAA), Draft, Draft Final, and Final EA documents, a draft and final FONSI, mailing out completed documents, all notices for local newspapers, coordination with local, federal, tribal and state agencies.

In carrying out work assignment(s) issued as Task Orders (TO) under the contract, the contractor shall furnish the personnel, services, equipment, tools, materials, vehicles, facilities supervision and other requirements necessary for, or incidental to, the performance of work set forth herein; assure any and all program and/or project related costing information (regardless of its stage in development) is secured, as directed by the Contracting Officer (CO); and be responsible for safeguarding proprietary, classified, and other sensitive information. The contractor shall be immediately capable of addressing and interpreting all aspects of environmental law and regulation.

1.2 Not Used.

APPLICABLE DOCUMENTS

The contractor shall comply with all applicable (1) federal, state and local environmental statutes, regulations and rules (including all changes and amendments), and (2) Presidential Executive Orders, in effect on the date of issuance of this delivery order. Also, the contractor shall provide the necessary environmental analysis and documentation for compliance with the National Environmental Policy Act (NEPA) and Air Force procedure for implementing NEPA found in 32 Code of Federal Regulations (CFR) 989,15 Jul 99, and amended 28 Mar 01, The Environmental Impact Analysis Process. Preparation of environmental documentation is found in Air Force EIAP desk Reference dated may 1995.

ADMINISTRATIVE AND MANAGERIAL REQUIREMENTS

The contractor shall perform management and planning functions, as well as performance measurement and cost status reporting, during the course of this effort as specified in this Task Order.

3.1 Coordination With Other Government Agencies

The Contractor shall notify 319 CES/CEVA Project Manager prior to coordinating with Federal, State, county, and local offices maintaining noise, air quality, ecological, and general environmental data to obtain copies of the documentation relating to this project. The Contractor shall also coordinate with base organizations to gather data, assess construction and demolition impacts and determine measures to minimize them.

3.2 Regulatory Interface

Assist in the application of regulatory requirements that pertain to EIAP and maintain currency with changing Federal, State and local statutes and regulations as follows:

Assist 319 CES/CEVA in technical reviews, analysis and discussions to integrate comments from federal, state, and local governments on programs and related data and studies. Develop options for responses and prepare reports to communicate government environmental priorities to regulatory agencies.

3.3-3.6.8 Not Used.

MANAGEMENT, PLANNING, AND REPORTING REQUIREMENTS

The contractor shall plan project activities, including the development, implementation, and maintenance of project schedules, events, status of resources, report(s) on the activities and

progress toward accomplishing project objectives, and document for Government review and approval the results of the project efforts for this TO.

Post Award Meeting/Teleconference

Post Award Teleconference. After issuance of this TO, the Contractor shall organize and participate in a post award teleconference with Grand Forks AFB personnel, and HQ AFCEE/ECE. The purpose of the teleconference is to become familiar with the work requirements for preparation of the Environmental Assessment. In addition, two (2) teleconference calls will be necessary during the performance of this task order to discuss plans, progress, status, and any obstacles encountered or foreseen during the performance of this TO.

At the beginning of the work effort the contractor shall attend a Technical Interchange Meeting (TIM or Kickoff meeting), collect data and visit the sites. In addition to contractor's representatives, attendees may include but are not limited to, AFCEE personnel, installation personnel, and other DoD representatives.

At the TIM the contractor shall present a draft Work Plan for meeting the task order objectives, along with any other information pertinent to the successful completion of the project. Also included will be a draft outline of the Table of Contents for the environmental assessment and discussions of administrative and coordination activities.

The contractor shall prepare meeting minutes and delivered to the Contracting Officer Representative (COR), 319 CES/CEVA project manager (PM) within seven (7) calendar days of the meeting. Comments and direction provided by the agencies during this forum shall be appropriately incorporated into the final document, and the contractor shall prepare a summary report outlining the comments/decisions from the meeting **(CDRL B001).**

4.2-4.6 Not Used

4.7 Contractor's Progress, Status, and Management Report

The Contractor shall prepare a Contractor's Progress, Status, and Management Report (CPSMR). The CPSMR shall be used to review and evaluate the overall progress of the project, along with any existing or potential problem areas. The CPSMR shall include a summary of the events that occurred during the reporting period, discussion of performance, identification of problems, proposed solutions, corrective actions taken, and outstanding issues. The CPSMR shall also include project schedule status. **(CDRL B005)**

4.8 Not Used.

Not Used.

Plans

The contractor shall prepare and submit a Work Plan (less than 6 pages) describing the contractors plan to implement the work required in the task order. The contractor shall include milestones, staff assignments, schedule, and deliverables. **(CDRL A008)**

4.15 Not Used.

Site Survey

In conjunction with the TIM the Contractor shall visit the sites, collect data, and interview personnel as required supporting the work described in this SOW. One person for 5 days is anticipated to perform this on-site visit at the installation. The contractor shall:

- Perform a search of available literature of various government sources for the purpose of obtaining relevant information on site operations and their environmental impacts.

  Review and analyze the government furnished environmental documentation such as:

  (a) Maps of the installation.

  (b) 319 CES/CEVA product samples, samples will be provided of EA, and FONSI by request. These documents are intended to be samples of the quality, work effort and formats preferred by the 319 CES/CEVP.

  (c) AF 813 for this project.

A site-visit report shall be prepared following the site visit whenever information is collected that will be used to complete a given task. The report shall include a statement of the purpose for the visit, a summary of activities, a list of contacts, and a discussion of observations, data obtained, and any anticipated follow-up activities. **(CDRL A014)**

MINOR CONSTRUCTION SCOPE NOT USED.

EOS SCOPE

The Contractor shall provide support to the installation's environmental conservation activities. Contractor's personnel shall possess appropriate certifications and training to accomplish the required environmental conservation activities to include regulatory interface as mentioned in paragraph 3.2 **(CDRL A013A, A013B, A013C)**

6.1-6.13 Not Used.

Conservation

The Contractor shall provide Environmental Impact Analysis Program (EIAP) support.

6.14.1 Environmental Impact Analysis Process (EIAP)
The National Environmental Policy Act and the President's Council on Environmental Quality (CEQ) regulations (40 CFR 1500-1508) require that federal agencies examine the potential impacts of its proposed actions and alternatives. Air Force procedures for supplementing the implementing regulations are contained in Air Force procedure for implementing NEPA found in

32 CFR 989,15 Jul 99, and amended 28 Mar 01, The Environmental Impact Analysis Process. The contractor shall perform activities such as the preparation of the Description of the Proposed Action and Alternatives (DOPAA), Environmental Assessment (EA), findings of no significant impact (FONSI), and other associated documents that might be required. The contractor shall perform activities such as data identification, data collection data development, and data interpretation; preparations of environmental impact evaluations, reports, provide copies of DOPAA and EA to agencies and schedules.

6.14.1.1 Description of the Proposed Action and Alternatives (DOPAA)

The contractor shall develop and prepare a draft and final DOPAA. The DOPAA submittal shall include sections addressing the Purpose and Need, Actions and Alternatives (including the No Action alternative), and a description of the Alternatives. The DOPAA shall present a summary of the environmental consequences of the proposal and alternatives in comparative form, thus sharply defining the issues and providing a clear basis for choice among options that will form the basis for Chapter 2 of the EA. In addition, the information obtained during scoping/data collection, and technical interchange telephone conferences shall be used to prepare the DOPAA. The COR and 319 CES/CEVA project manager will approve the draft DOPAA prior to final DOPAA submission.

6.14.1.2 Environmental Assessment (EA) and Findings of No Significant Impact (FONSI)

Environmental Assessment (EA) and Findings of No Significant Impact (FONSI). The EA is a concise public document that serves to briefly provide sufficient evidence and analysis for determining whether to prepare an EIS or whether the decision-maker can prepare and sign a FONSI. The EA facilitates the preparation of an EIS when one is necessary and includes brief discussions of the need for the proposal, of the alternatives considered, and of the environmental impacts of the proposed action and alternatives. It also includes a listing of agencies and persons consulted.

The contractor shall coordinate with the appropriate federal, state, tribal and local agencies. The Contractor shall first conduct a scoping/data collection effort to assimilate data on all potential environmental and socioeconomic impacts associated with the action. The draft EA and FONSI shall be prepared based on data collected from the scoping/data collection effort.

The range of issues addressed the EA shall include the evaluation of the potential impacts associated with the propose action and alternatives to include, geology and soils, water resources, natural and cultural resources, threatened and endangered species, air quality (air conformity determination), biological resources, noise, hazardous materials and waste management, land use, socioeconomic, utilities, transportation, environmental justice, and health and safety. The EA shall consist of an overview analysis with concentration on those environmental resources, which will be heavily impacted.

The contractor shall prepare an EA for the proposed project coordinating efforts with the appropriate federal, state, tribal and local agencies. The Contractor shall first conduct a data

collection effort to assimilate data on all potential environmental and socioeconomic impacts associated with the action. The draft EA and FONSI, if applicable, shall be prepared based on data collected from the data collection effort.

The Contractor shall prepare the following versions of the EA/FONSI:

- Draft DOPAA
- Final DOPAA
- Draft EA
- Draft (Final) EA and Proposed FONSI (agencies)
- Revised Draft (Final) EA/FONSI (public)
- Revised Draft (Final) EA/FONSI
- Final EA/FONSI

6.14.1.3 Schedule

Deliverables shall be submitted per schedule as determined in the initial meeting with the contractor. The period of performance is from the date of award through **31 Aug 03.**

6.15-6.19 Not Used.

MISCELLANEOUS

7.1 Presentation Materials Not Used.

Photo Documentation

Color photos documenting the current condition of the project areas shall be included in the EA documentation. All deliverables must be made available, upon request, in electronic format to PM. To ensure compatibility software used for this project, electronic deliverables will be agreed to by Contractor and 319 CES/CEVA project manager during TIM (such as text in Microsoft Word 98/2000 format, digitize photos). **(CDRL B013)**

Data Management

The Contractor shall name and assign a responsible person as Project Manager. This Project Manager shall maintain the project file to contain all correspondence and criteria pertinent to this project and shall provide the 319 CES/CEVA project manager with the names of the individuals responsible for preparation and coordination of the project work. The Project Manager shall be responsible for project coordination and charged with overall project responsibilities.

The Contracting Officer (CO) at AFCEE is responsible for the administration of the contract. The CO will make no changes in the provisions for this contract without written authorization. The 319 CES/CEVA project manager (PM) for this TO be Heidi Durako, who may be contacted by telephone at (701) 747-4774 or by facsimile at (701) 747-6155.

Not Used.

Not Used.

7.6 Government Points Of Contact

Mr. Robert L. Lopez
Task Order Manager/Contracting Officers Representative (COR)
HQ AFCEE/ECE
3300 Sidney Brooks, Brooks City-Base, TX 78235-5112
Phone: DSN/Com 240-6545/ (210) 536-6545; Fax: DSN 240-3890/ (210) 536-3890.
E-mail: robert.lopez@hqafcee.brooks.af.mil

Ms. Heidi Durako
Project Manager
319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB ND 58205
Phone: DSN/Com: 362-4774/701-747-4774; Fax: DSN 362-6155/(701) 747-6155
E-mail: heidi.durako@grandforks.af.mil

ABBREVIATIONS, ACROMNYMS, AND TERMS-SEE BASIC CONTRACT

File 9B CEVA
RGS#03-013
HSD

DEPARTMENT OF THE AIR FORCE
319TH CIVIL ENGINEER SQUADRON
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

16 JAN 2003

MEMORANDUM FOR HSW/PKVA
ATTN: Ms. Terry Lazenby
3207 Sidney Brooks, Bldg 532
Brooks AFB TX 78235-5344

FROM: 319 CES/CD
525 Tuskegee Airmen Blvd
Grand Forks AFB ND 58205-6434

SUBJECT: Base Support for Contractor selected to provide an Environmental Assessment for Construct Fire Station/Control Tower/RAPCON, Grand Forks AFB, North Dakota

1. In support of the above contractor, Grand Forks AFB agrees to comply with the following items.

a. Provide assistance to the contractor in obtaining existing records and files, engineering plans, drawings, diagrams, aerial photographs, digitized map files, etc., to facilitate work required in the Statement of Work (SOW).

b. Provide assistance for contract personnel in obtaining identification badges, vehicle passes and/or entry permits with written notification of names of personnel, citizenship, and state of birth for American citizens. The base will provide escorts to restricted areas on the installation, when required, to complete the data collection as specified in the SOW.

c. Provide the use of a photocopier for copying of files, plans, drawings, and other data associated to the SOW.

d. Provide temporary desk space on an intermittent basis for contract employees for a period normally not to exceed one week per visit. The location will be equipped with a telephone or telephone hook-up for local calls. All long distance or other toll calls will be made at contractor expense. The location will provide access to 110/115 VAC power sufficient to operate small office equipment such as personal computer.

2. If you have any questions, please contact Ms. Heidi Durako, at DSN 362-4774.

MARY C. GILTNER, GM-13, DAFC
Deputy Base Civil Engineer

319 CES/CEV
525 Tuskegee Airmen Blvd.
Grand Forks AFB ND 58205-6434

facsimile transmittal

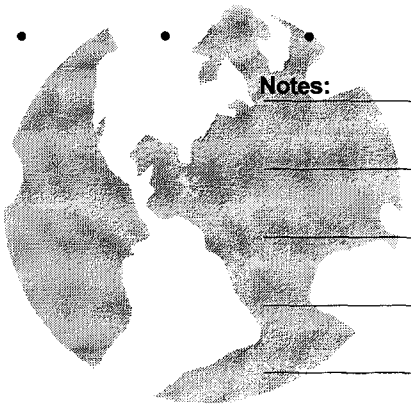
To: Robert Loper From: Heidi Durako

Fax: DSN 240-3590 Date: 16 Jan 03

Phone: Pages: 2

Re: CC:

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle



Notes:

GMI
GEO-MARINE INCORPORATED
11846 Rock Landing Dr., Suite C Newport News, VA 23606 ph: 757.873.3702 fax: 757.873.3703
www.geo-marine.com

FILE 9B CEVA
KGSH 03-012 (N)

July 2, 2003

Grand Forks Public Library
2110 Library Circle
Grand Forks, ND 58201
Attention: Reference Librarian

RE: Environmental Assessment (EA) for Proposed Construction of a Fire Station, Control Tower, and Radar Approach Control Facility at Grand Forks Air Force Base, North Dakota

Dear Sir or Madam:

On behalf of the U.S. Air Force, Geo-Marine, Inc. is preparing an environmental assessment on the above referenced project. The attached *Draft Environmental Assessment* and *Finding of No Significant Impact* (FONSI) provide details of the action, for your review in accordance with the President's Executive Order 12372 on Intergovernmental Review of Federal Programs.

A public notice of availability is scheduled to appear in the *Grand Forks Herald* early this month, with a 30-day public comment period. Please make this draft EA and FONSI available to any requesting member of the public. Comments should be sent to:

Ms. Heidi Durako, 319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

Your assistance in making this EA available to the public is greatly appreciated.

Sincerely,

Sandra J.Y. Brinson
NEPA Specialist

cc: Heidi Durako, Grand Forks AFB
Robert Lopez, HQ AFCEE, Brooks City-Base, TX

Attachment: EA (1 copy)

GEO-MARINE, INC.

11846 Rock Landing Dr., Suite C
Newport News, Virginia 23606

phone: 757.873.3702
email: gmi@geo-marine.com

fax: 757.873.3703
website: geo-marine.com

July 2, 2003

Mr. L. David Glatt, Chief
Environmental Health Section
North Dakota Department of Health
600 East Boulevard Avenue
Bismarck, ND 58505-0200

RE: Environmental Assessment (EA) for Proposed Construction of a Fire Station, Control Tower, and Radar Approach Control Facility at Grand Forks Air Force Base, North Dakota.

Dear Mr. Glatt:

On behalf of the U.S. Air Force, Geo-Marine, Inc. is preparing an environmental assessment on the above referenced project. The attached *Draft Environmental Assessment* provides details of the action for your review in accordance with the President's Executive Order on Intergovernmental Review of Federal Programs. Please identify resources within your agency's responsibility that may be impacted by the action. Comments should be sent within 30 days of receipt of this letter to:

Ms. Heidi Durako, 319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

Your assistance in providing information is greatly appreciated. If you have any questions, please call Ms. Durako at 701-747-4774.

Sincerely,

Sandra J.Y. Brinson
NEPA Specialist

cc: Heidi Durako, Grand Forks AFB
Robert Lopez, HQ AFCEE, Brooks City-Base, TX

Attachment:
EA (1 copy)

GEO-MARINE, INC.

11846 Rock Landing Dr., Suite C
Newport News, Virginia 23606

phone: 757.873.3702
email: gmi@geo-marine.com

fax: 757.873.3703
website: geo-marine.com

July 2, 2003

Mr. Merlan E. Paaverud, Jr.
State Historic Preservation Officer
State Historical Society of North Dakota
612 East Boulevard Avenue
Bismarck, ND 58505-0200

RE: Environmental Assessment (EA) for Proposed Construction of a Fire Station, Control Tower, and Radar Approach Control Facility at Grand Forks Air Force Base, North Dakota

Dear Mr. Paaverud:

On behalf of the U.S. Air Force, Geo-Marine, Inc. is preparing an environmental assessment on the above referenced project. The attached *Draft Environmental Assessment* provides details of the action for your review in accordance with the President's Executive Order on Intergovernmental Review of Federal Programs. Please identify resources within your agency's responsibility that may be impacted by the action. Comments should be sent within 30 days of receipt of this letter to:

Ms. Heidi Durako, 319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

Your assistance in providing information is greatly appreciated. If you have any questions, please call Ms. Durako at 701-747-4774.

Sincerely,

Sandra J.Y. Brinson
NEPA Specialist

cc: Heidi Durako, Grand Forks AFB
Robert Lopez, HQ AFCEE, Brooks City-Base, TX

Attachment:
Draft EA (1 copy)

File QB RCS# 03-012
CEVA 1121)

GEO-MARINE, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES

30 May 2003

Mr. Robert Lopez
HQ AFCEE
3300 Sidney Brooks
Brooks City-Base, TX 78235-5112

Re: Contractor's Progress, Status, and Management Report (CDRL B005)
Period 1 to 30 May 2003, Report No. 3
Contract Number F41624-01-D-8556, Task Order 0048
Environmental Assessment to Construct Fire Station/Control Tower/RAPCON at Grand Forks AFB, North Dakota

Dear Mr. Lopez:

Geo-Marine, Inc. (GMI) is pleased to submit this Contractor's Progress, Status, and Management Report (CPSMR) on the above-referenced project to the Air Force Center for Environmental Excellence (AFCEE). The CPSMR has been sent in both hard copy and electronic format. If you have questions concerning this report or any aspect of the project, please contact me at (757) 873-3702.

Sincerely,

Joseph J. Campo, Ph.D.
Project Manager

Attachment: CPSMR

cc: Ms. Heidi Durako, Project Manager, 319 CES/CEVA, (Hard Copy & Electronic)
Mr. Gerardo Villarreal, HSW/PKVAB, Brooks City-Base, (Hard Copy)
AFCEE /MSCD, Brooks City Base, (Transmittal Letter Only)
Charysse Knotts, GMI EMCOS Program Manager, GMI-San Antonio (Electronic)
Bob Kull, GMI QAM, GMI-Newport News (Electronic)
Shawna Chapman, GMI Contracts Administrator, GMI-Plano (Electronic)
GMI File No: 12560.00.48

GEO-MARINE, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES

PROJECT STATUS REPORT

REPORT DATE:	May 30, 2003	**REPORT PERIOD:**	1-30 May 2003
CONTRACT NO:	F41624-01-D-8556	**TASK ORDER:**	0048
GMI NUMBER:	12560.00.48	**PROJECT MGR:**	Joseph Campo
CLIENT NAME:	Air Force Center for Environmental Excellence	**TECHNICAL REP:**	Mr. Robert Lopez
PROJECT NAME:	Environmental Assessment to Construct Fire Station/Control Tower/RAPCON at Grand Forks AFB, North Dakota		

CURRENT PERIOD ACTIVITIES AND PROGRESS:

Geo-Marine, Inc. (GMI) revised the draft Description of the Proposed Action and Alternatives (DOPAA) and submitted a Final DOPAA. GMI prepared transmittal letters for distribution of the DOPAA to the North Dakota Department of Health and State Historic Preservation Officer, State Historical Society of North Dakota. The transmittal letters and Final DOPAA were submitted to 319 CES/CEV for distribution under official signature of the Environmental Manager.

GMI continued preparation of the draft EA. The affected environment section was completed and sections of the environmental consequences (cultural resources and air quality) were completed.

RESULTS OF PREVIOUSLY IDENTIFIED ISSUES:

None.

CHANGES TO THE PROJECT TEAM OR APPROACH:

None.

PROBLEM AREAS:

None.

CURRENT AND CUMULATIVE COST SUMMARY:

Individual tasks and their status are tabulated below.

Task	Status
Post Award Teleconference	100% Complete
Kickoff Meeting/Site Visit	100% Complete
Draft DOPAA	100% Complete
Final DOPAA	100% Complete
Draft Final Internal EA	60% Complete
Draft Final Public EA	0% Complete
Final Internal EA	0% Complete
Final Public EA	0% Complete

The project costs to date are shown in the table below. GMI considers this project to be 55% complete and 55% spent.

Contract Value	$ 33,278.00		
Prior Period Cumulative Cost	$ 14,650.00	Prior Period Cumulative % Complete	44%
Current Period Cost	$ 3,650.00	Current Period % Complete	11%
Current Cumulative Cost	$ 18,300.00	Current Cumulative % Complete	55%

FUTURE PLANS:

GMI will coordinate with the PM and COR as necessary and distribute electronic copies of the Draft EA for internal governmental review. GMI will incorporate comments as necessary from the agency reviews of the Final DOPAA.

File 9B RCSH03-02
CEVA HYD

GEO-MARINE, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES

30 April 2003

Mr. Robert Lopez
HQ AFCEE
3300 Sidney Brooks
Brooks City-Base, TX 78235-5112

Re: Contractor's Progress, Status, and Management Report (CDRL B005)
Period 1 to 30 March 2003, Report No. 2
Contract Number F41624-01-D-8556, Task Order 0048
Environmental Assessment to Construct Fire Station/Control Tower/RAPCON at Grand Forks AFB, North Dakota

Dear Mr. Lopez:

Geo-Marine, Inc. (GMI) is pleased to submit this Contractor's Progress, Status, and Management Report (CPSMR) on the above-referenced project to the Air Force Center for Environmental Excellence (AFCEE). The CPSMR has been sent in both hard copy and electronic format. If you have questions concerning this report or any aspect of the project, please contact me at (757) 873-3702.

Sincerely,

Joseph J. Campo, Ph.D.
Project Manager

Attachment: CPSMR

cc: Ms. Heidi Durako, Project Manager, 319 CES/CEVA, (Hard Copy & Electronic)
Mr. Gerardo Villarreal, HSW/PKVAB, Brooks City-Base, (Hard Copy)
AFCEE /MSCD, Brooks City Base, (Transmittal Letter Only)
Ms. Sharon Vaca, 311th HSW/PKVAB (Hard Copy & Electronic)
Charysse Knotts, GMI EMCOS Program Manager, GMI-San Antonio (Electronic)
Bob Kull, GMI QAM, GMI-Newport News (Electronic)
Shawna Chapman, GMI Contracts Administrator, GMI-Plano (Electronic)
GMI File No: 12560.00.48

GEO-MARINE, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES

Since 1972

PROJECT STATUS REPORT

REPORT DATE:	30 April 2003
REPORT PERIOD:	1 to 30 April 2003
PROJECT NAME:	Environmental Assessment to Construct Fire Station/Control Tower/RAPCON at Grand Forks AFB, North Dakota
CONTRACT NO:	F41624-01-D-8556
TASK ORDER NO.:	0048
GMI PROJECT NUMBER:	12560.00.48
GMI PROJECT MANAGER:	Joseph Campo
CLIENT NAME:	Air Force Center for Environmental Excellence
TECHNICAL REPRESENTATIVE:	Mr. Robert Lopez

CURRENT PERIOD ACTIVITIES AND PROGRESS:

Geo-Marine, Inc. (GMI) attended a kickoff meeting and site visit during 8-10 April; meeting minutes were submitted to the COR and Project Manager (PM) at Grand Forks AFB. GMI submitted a draft work plan to the COR and PM for discussion at the kickoff meeting. GMI prepared and submitted a site survey report to the COR and PM that documented interviews with installation personnel, information obtained, and field observations. GMI used the AF Form 813 and DD form 1391 from the PM, as well as information collected at the kickoff meeting and site visit, to prepare a draft Description of the Proposed Action and Alternatives (DOPAA). GMI submitted the DOPAA to the COR and PM for review and comments. GMI incorporated comments from the COR on the draft DOPAA .

RESULTS OF PREVIOUSLY IDENTIFIED ISSUES:

None.

CHANGES TO THE PROJECT TEAM OR APPROACH:

None.

PROBLEM AREAS:

None.

CURRENT AND CUMULATIVE COST SUMMARY:

Individual tasks and their status are tabulated below.

Task	Status
Post Award Teleconference	100% Complete
Kickoff Meeting/Site Visit	100% Complete
Draft DOPAA	100% Complete
Final DOPAA	0% Complete
Draft Final Internal EA	0% Complete
Draft Final Public EA	0% Complete
Final Internal EA	0% Complete

Final Public EA	0% Complete

The project costs to date are shown in the table below. GMI considers this project to be 3% complete and 3% spent.

Contract Value	$33,278.00		
Prior Period Cumulative Cost	$1,000.00	Prior Period Cumulative % Complete	3%
Current Period Cost	$ 13,650.00	Current Period % Complete	41%
Current Cumulative Cost	$ 14,650.00	Current Cumulative % Complete	44%

FUTURE PLANS:

GMI will coordinate with the PM and COR regarding finalizing the kickoff meeting minutes and site survey report. GMI will revise the draft DOPAA according to comments received from the PM. GMI will submit a Final DOPAA and continue development of the Draft EA.

File 9B RCS # 03-012
CEVA HQD

GMI
GEO-MARINE INCORPORATED

Kickoff Meeting Minutes, 8 April 2003, 8:30 AM
Environmental Assessment (EA) to Construct Fire Station/Control Tower/RAPCON
Grand Forks Air Force Base (GFAFB), North Dakota

Introduction

A post award kickoff meeting was held at Grand Forks AFB to discuss the draft work plan and continue development of the EA. The meeting began with everyone introducing themselves. The scope of work was mentioned as the information that was discussed in our post award teleconference on 26 February 2003. The Contracting Officer's Representative (COR), Robert Lopez was unable to attend the kickoff meeting because of travel restrictions. Following the meeting, Geo-Marine, Inc. (GMI) personnel and the Project Manager, Heidi Durako met base personnel to obtain additional information. Interviews and site visits would continue through 10 April 2003. The kickoff meeting was concluded at 9:45 AM.

Personnel Attendance

Name	Organization	Phone/email
Steve Zhorela	319 CES/CECP	701747-5642 steve.zhorela@grandforks.af.mil
Sharon E. Brennan Real Property	319 CES/CERR	701-747-4803 sharon.brennan@grandforks.af.mil
Heidi Duraco GFAFB Project Manager	319 CES/CEVA	701-747-4774 heidi.durako@grandforks.af.mil
Wayne Koop Flight Chief	CES/CEV	702-747-4590 wayne.koop@grandforks.af.mil
Carl Wilkes Fire Chief	319 CES/CEFT	Carl.wilkes@grandforks..af.mil
MSGT Richard Lien Asst. Fire Chief	319 CES/CEFT	Richard.lien@grandforks.af.mil
Lt. Brian Robbins	319 OSS/OSA	701-747-5392 Samuel.robbins@grandforks.af.mil
Lt. Glen Smith	319 OSS/OSA	Glen.smith@grandforks.af.mil
Sandra Brinson GMI NEPA	Geo-Marine, Inc.	757-873-3702 Sbrinson@geo-marine.com
Joseph Campo GMI Project Manager	Geo-Marine, Inc.	757-873-3702 Jcampo@geo-marine.com
Post Meeting Contacts		
Chris Klaus Water Quality	319 CES/CEVC	701-747-6156 christopher.klaus@grandforks.af.mil
Stephen Braun ACM/LBP/UST	319 CES/CEVC	701-747-6387 stephen.braun@grandforks.af.mil
Heidi Nelson Community Planner	319 CES/CEVP	701-747-6164 heidi.nelson@grandforks.af.mil
Scott Bassingthwaite GIS	319 CES/CECP	710-747-6246 scott.bassingthwaite@grandforks.af.mil
Larry Olderbak IRP	319 CES/CEVR	710-747-4183 Larry.olderbak@grandforks.af.mil

Discussion

The resources to be evaluated would be the same as presented in the example EA (SAGE) that was provided to GMI. Based on the findings from the site visits, there may be additional resources to be evaluated. Heidi Durako, GFAFB Project Manager will coordinate with base personnel for review of deliverables and compile comments for distribution to GMI and the COR. Steve Zhorela stated that a site survey was conducted to assess alternative locations for the control tower and RAPCON and provided a copy of the report to GMI after the meeting. Similar information would need to be obtained or developed later in the week for construction of the new fire station.

The period of performance for construction of the new facilities would be approximately 14 to 16 months. Demolition activities would be completed in approximately 30 days. The action would probably occur in 2005.

The action for alternative locations would be the same as the proposed action. Regulatory coordination would be the same as presented in the SAGE EA. Based on the findings from the site visits, there may be additional coordination requirements. Scoping letters to agencies and organizations as directed by Heidi Durako would be prepared for Wayne Koop's signature. The description of the proposed action and alternatives (DOPAA), draft final EA, and draft finding of no significant impact (FONSI) would be submitted to agencies and organizations as directed to obtain comments.

Steve Zhorela stated that he can provide information on reasonably foreseeable actions and related NEPA documents for reference. The summary of potential environmental consequences would be based on our site visits, analyses, and document reviews. Copies of the GFAFB predraft INRMP, final ICRMP, base environmental specifications, and final SAGE EA were provided to GMI for review.

The DOPAA would normally consist of Chapters 1 and 2 of the EA. There would be four parts to the action: (1) construction of a consolidated crash/structural fire station, (2) construction of a collocated Air Traffic Control (ATC) tower and radar approach control (RAPCON) facility, (3) demolition of the old fire station (Building 530) and the old ATC tower (Building 634), and (4) environmental controls to be implemented during construction for protection of the human and natural environment.

(1)The new fire station would be a consolidated facility to provide fire protection services for the airfield in the event of an aircraft accident or other need, and for the base facilities. The new construction would include installation of underground utilities (gas, water, and electricity) and communications infrastructure, pavements for parking, access roads to the flight line and the base transportation system, site improvements for drainage and landscaping, and anti-terrorism (AT)/force protection (FP) physical security.

(2) The new ATC tower and RAPCON facility would be constructed to meet Air Force and Federal Aviation Administration (FAA) standards. The action would meet the FAA upgrade to national airspace facility requirements. The old RAPCON would remain in place for reuse as another facility function. The new tower and RAPCON would be connected to the existing utilities and communications infrastructure along the flightline. Similar measures would be implemented for AT/FP physical security. The new tower would be one story taller than the

existing tower to provide sufficient visual surveillance and depth perception of the aerodrome. The new construction would be an 11-story tower with a control tower cab as the top floor.

(3) Demolition of the old fire station and ATC tower would proceed after completion of the construction and operation of the new facilities. Conventional methods of demolition with a wrecking ball and disposal of debris offsite to an approved landfill would be used. Demolition debris would be trucked approximately one mile to the south gate on Eielson Street for offsite disposal. The demolition sites would be revegetated to turf grass.

(4) All work shall be performed in accordance with all applicable federal, state, and local regulations and guidelines to protect the human and natural environment. Environmental controls that would be implemented during construction and demolition activities would include submittal, by the contractor to CES/CEVP for approval, of a health and safety plan, pollution prevention plan, stormwater protection plan, erosion and sediment control plan, waste disposal plan, dust control plan, and regulated asbestos-containing material removal plan.

Selection criteria for alternatives primarily involve the requirement to be located in the airfield operations area. Direct access to the flightline is a requirement for location of the fire station to provide emergency response services to protect aircraft and aircrews. Location of the ATC tower and RAPCON along the flightline is necessary to provide airfield surveillance and radar control of aircraft activities in accordance with Air Force siting requirements. Alternate sitings for the fire station and ATC tower/RAPCON that involved location of these facilities west of the runway, south of the existing locations, east of the existing locations, and in the northern part of the airfield were eliminated from further consideration.

One alternative siting of the fire station across a paved road from the proposed site location is being considered; however, the site is an area that is reserved for future expansion of the aircraft hangars. This is the only available open space that is sufficient in size, in addition to the proposed action site, on the east side of the airfield and centrally located. Reservation of the alternative site for future expansion of aircraft hangars makes this site not a viable alternative; consequently, the action for construction of a new fire station involves only the proposed action and no action alternative if the alternative site is precluded from further consideration.

Four sites were assessed by HQ AMC for location of the new ATC tower/RAPCON. It was recommended that the new facilities be constructed on an open (turf grass) site approximately 350 feet northeast of the existing tower. Construction of a new ATC tower/RAPCON on the existing tower site was rejected because this alternative would require the use of a mobile tower as an interim facility, which might adversely impact aircraft operations.

Schedule and Deliverables

The draft DOPAA will be submitted to the COR and GFAFB Project Manager on 18 April 2003. The draft EA is scheduled for delivery on 19 May 2003 and the draft final EA/draft FONSI is scheduled for distribution to state and federal agencies on 30 May 2003. The final EA/FONSI is scheduled to be delivered on 5 August 2003 following a 30-day public review period.

GMI
GEO-MARINE INCORPORATED

Site Survey Report
Conducted April 8-10, 2003
Environmental Assessment (EA) to Construct Fire Station/Control Tower/RAPCON
Grand Forks Air Force Base (GFAFB), North Dakota

Introduction

In conjunction with the kickoff meeting on 8 April 2003, Geo-Marine, Inc. (GMI) visited the project sites to collect data and interview personnel to obtain information in support of the scope of work. Onsite visits were conducted with the GFAFB Project Manager, Heidi Durako to the existing fire station, Air Traffic Control (ATC) tower, and Radar Approach Control (RACON) facility. In addition, field visits were made to record observations at the proposed and alternative site locations for construction of the new fire station and ATC tower/RAPCON. The AF Form 813 and DD Form 1391, provided by the Contracting Officer's Representative, Robert Lopez were reviewed prior to initiating the site surveys. The surveys consisted of interviewing base personnel and completing windshield surveys by driving the perimeter of all adjacent roads to the proposed sites, alternative sites and existing facilities to be replaced. Digital pictures were taken, with the assistance of Heidi Durako, of the existing facilities and proposed site locations. Information useful for preparation of the EA was obtained from the following base personnel.

Name	Information Obtained
Carl Wilkes, Fire Chief	Fire Station Design Guide
Heidi Nelson, Community Planner	General Plan, transportation network
Steve Zhorela, CECP	AT/FP guidelines, proposed site plans
Chris Klaus, CEVC	NPDES, water drainage basins
Stephen Braun, CEVC	RACM and LBP guidance
Larry Olderbak, CEVR	IRP, AOC, SWMU information
Lt. Brian Robbins, 319 OSS/OSA	FAA upgrade to national airspace facilities
Scott Bassingthwaite, CECP	GIS data
Kristin Rundquist, CECP	GIS data
Judy Stensland, CERR	Real Property records

Findings

All alternative sites, proposed sites and existing facilities were found in the condition presented in the background documentation provided during the kickoff meeting on 8 April 2003. The existing fire station (Building 530) is a cinder block construction that was originally built in 1957 (9,350 square feet) and has had several additions to make the current size of 21,266 square feet. The ATC tower (Building 634) is a 9-story corrugated metal building with reinforced concrete that was originally constructed in 1974; the occupied area is 2,146 square feet. The RAPCON facility (Building 635) is adjacent to the ATC tower and is a reinforced concrete building constructed in 1973. The proposed site location for construction of the new ATC tower/RAPCON is approximately 350 feet northeast of the existing tower, due west of Building 629, 5100 feet north of the Runway 35 threshold, and 2575 feet east of the runway centerline. The site is mowed grass and is surrounded by airfield pavements and other developed areas. The alternative locations for siting the new ATC tower/RAPCON are in the general vicinity of the existing tower on developed land. The proposed site location for the new fire station is immediately south of Landfill 02 in an undeveloped area that has been previously planted with various shrub and tree species. Most of the woody vegetation is Russian olive. The GFAFB

Project Manager stated that the trees and shrubs were probably planted as part of the shelter belt program and for screening the landfill from adjacent roads. The proposed site and the landfill are clearly separated by a fence and open right-of-way. There is a powerline through the proposed site that presumably provides power to Building 606, which was considered a potential cultural resource site (Missile Transfer Building). The site would provide direct access to the flight line and base transportation system through the construction of access roads as part of the proposed action. The alternative location for siting the new fire station is directly south of the proposed site location, across a paved road in a mowed grass field. This site could also provide direct access to the flightline and base transportation system with the construction of access roads.

The only site location that revealed any potential differences from the background documentation provided was the proposed site location of the new fire station. Several areas in this site appeared to exhibit the three criteria for jurisdictional wetlands under the Clean Water Act. GMI discussed these observations with Heidi Durako and advised that the wetlands (approximately 0.5 acres in roughly three polygons) may not be claimed as jurisdictional if they are considered isolated by the U.S. Army Corps of Engineers (USACE); however, the state may claim jurisdiction over isolated wetlands. Heidi Durako contacted the USACE and confirmed that the apparent wetland depressions were isolated and therefore would not be considered jurisdictional wetlands by the USACE. She also contacted the State of North Dakota, Department of Health and Environment and confirmed that the state would not take jurisdiction over the isolated wetland depressions. This wetland concern was quickly laid to rest. No other resource issues were identified.

The findings from site surveys support the proposed action as the preferred alternative. The requirements for location of the fire station and ATC tower/RAPCON along the flightline and the existing development in the area limit the available space for relocation of these facilities.

File 9B RCS#03-012
CEVA MND

Memorandum

To: MEMO FOR RECORD

CC:

From: HEIDI DURAKO

Date: 4/11/2003

Re: FIRE STATION/CONTROL TOWER/RAPCON

After discussions with Joe Campo and Sandy Brinster from GeoMarine, I contacted the US Army Corp of Engineers in Bismarck, ND, regarding the wet areas where the new Fire Station has been sited. Toni Erhardt was contacted on 4/9/2003 at 4:15pm. I indicated to her that if these areas were wetlands, I thought they would be considered isolated. She said she would take my word on that and the US Army Corps of Engineers does not take jurisdiction on isolated wetlands. She said we would not need a permit to construct in this area.

With further recommendation from Sandy Brinster, I contacted Michael Ell at the ND Department of Health regarding the state's interest in wetlands. He said that the water quality does not take jurisdiction on wetlands but that I should contact Craig Odenbach of the ND State Water Commission.

Craig called me back on 4/10/2003. He stated that the State Water Commission only took jurisdiction on watersheds over 80 acres. Reference ND State Code 61-32, specifically 61-32-03.

File 9B RCS# 03-012
CEVA LSD

GEO-MARINE, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES

31 March 2003

Mr. Robert Lopez
HQ AFCEE
3300 Sidney Brooks
Brooks City-Base, TX 78235-5112

Re: Contractor's Progress, Status, and Management Report (CDRL B005)
Period 1 to 30 March 2003, Report No. 1
Contract Number F41624-01-D-8556, Task Order 0048
Environmental Assessment to Construct Fire Station/Control Tower/RAPCON at Grand Forks AFB, North Dakota

Dear Mr. Lopez:

Geo-Marine, Inc. (GMI) is pleased to submit this Contractor's Progress, Status, and Management Report (CPSMR) on the above-referenced project to the Air Force Center for Environmental Excellence (AFCEE). The CPSMR has been sent in both hard copy and electronic format. If you have questions concerning this report or any aspect of the project, please contact me at (757) 873-3702.

Sincerely,

Joseph J. Campo, Ph.D.
Project Manager

Attachment: CPSMR

cc: Ms. Heidi Durako, Project Manager, 319 CES/CEVA, (Hard Copy and Electronic)
Mr. Gerardo Villarreal, HSW/PKVAB, Brooks City-Base, (Hard Copy)
AFCEE /MSCD, Brooks City Base, (Transmittal Letter Only)
Ms. Sharon Vaca, 311th HSW/PKVAB
Charysse Knotts, GMI EMCOS Program Manager, GMI-San Antonio (Electronic)
Bob Kull, GMI QAM, GMI-Newport News (Electronic)
Shawna Chapman, GMI Contracts Administrator, GMI-Plano (Electronic)
GMI File No: 12560.00.48

GEO-MARINE, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES

Since 1972

PROJECT STATUS REPORT

REPORT DATE:	31 March 2003
REPORT PERIOD:	1 to 30 March 2003
PROJECT NAME:	Environmental Assessment to Construct Fire Station/Control Tower/RAPCON at Grand Forks AFB, North Dakota
CONTRACT NO:	F41624-01-D-8556
TASK ORDER NO.:	0048
GMI PROJECT NUMBER:	12560.00.48
GMI PROJECT MANAGER:	Joseph Campo
CLIENT NAME:	Air Force Center for Environmental Excellence
TECHNICAL REPRESENTATIVE:	Mr. Robert Lopez

CURRENT PERIOD ACTIVITIES AND PROGRESS:

Geo-Marine, Inc. (GMI) coordinated with the AFCEE/ECE COR and 319 CES/CEVA POC on a post award teleconference and scheduled a kickoff meeting and site visit for 7-11 April 2003. GMI received background information from the 319 CES/CEVA POC for review and use in development of the EA. GMI submitted a draft work plan to the COR and POC for review prior to the kickoff meeting.

RESULTS OF PREVIOUSLY IDENTIFIED ISSUES:

None.

CHANGES TO THE PROJECT TEAM OR APPROACH:

None.

PROBLEM AREAS:

None.

CURRENT AND CUMULATIVE COST SUMMARY:

Individual tasks and their status are tabulated below.

Task	Status
Post Award Teleconference	100% Complete
Kickoff Meeting/Site Visit	0% Complete
Draft DOPAA	0% Complete
Final DOPAA	0% Complete
Draft Final Internal EA	0% Complete
Draft Final Public EA	0% Complete
Final Internal EA	0% Complete
Final Public EA	0% Complete

The project costs to date are shown in the table below. GMI considers this project to be 3% complete and 3% spent.

Contract Value	$33,278.00		
Prior Period Cumulative Cost	$0	Prior Period Cumulative % Complete	0%
Current Period Cost	$ 1,000.00	Current Period % Complete	3%
Current Cumulative Cost	$ 1,000.00	Current Cumulative % Complete	3%

FUTURE PLANS:

GMI will attend the kickoff meeting and site visit. Meeting minutes and a site survey report will be submitted for review. GMI will finalize the work plan and prepare a draft DOPAA for review.

FILE 9B RCS#03-042 CEVH HZD

NORTH DAKOTA DEPARTMENT OF HEALTH
Environmental Health Section

Location:
1200 Missouri Avenue
Bismarck, ND 58504-5264

Fax #:
701-328-5200

Mailing Address:
P.O. Box 5520
Bismarck, ND 58506-5520

May 16, 2003

Ms. Heidi Durako
319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

Re: Environmental Assessment for Proposed Construction of a Fire Station, Control Tower and Radar Approach Control Facility Grand Forks Air Force Base, Grand Forks County

Dear Ms. Durako:

This department has reviewed the information concerning the above-referenced project submitted under date of May 13, 2003, with respect to possible environmental impacts.

This department believes that environmental impacts from the proposed construction will be minor and can be controlled by proper construction methods. With respect to construction, we have the following comments:

1. All necessary measures must be taken to minimize fugitive dust emissions created during demolition activities. Any complaints that may arise are to be dealt with in an efficient and effective manner.

2. Care is to be taken during construction activity near any water of the state to minimize adverse effects on a water body. This includes minimal disturbance of stream beds and banks to prevent excess siltation, and the replacement and revegetation of any disturbed area as soon as possible after work has been completed. Caution must also be taken to prevent spills of oil and grease that may reach the receiving water from equipment maintenance, and/or the handling of fuels on the site. Guidelines for minimizing degradation to waterways during construction are attached.

3. Projects disturbing one or more acres are required to have a permit to discharge storm water runoff until the site is stabilized by the reestablisment of vegetation or other permanent cover. Also, cities may impose additional requirements and/or specific best management practices for construction affecting their storm drainage system. Check with the local officials to be sure any local storm water management considerations are addressed.

4. All necessary measures must be taken to minimize the disturbance of any asbestos-containing material and to prevent any asbestos fiber release episodes. Removal of any

friable asbestos-containing material must be accomplished in accordance with section 33-15-13-02 of the North Dakota air pollution control rules.

The department owns no land in or adjacent to the proposed improvements, nor does it have any projects scheduled in the area. In addition, we believe the proposed activities are consistent with the State Implementation Plan for the Control of Air Pollution for the State of North Dakota.

These comments are based on the information provided about the project in the above-referenced submittal. The U.S. Army Corps of Engineers may require a water quality certification from this department for the project if the project is subject to their Section 404 permitting process. Any additional information which may be required by the U.S. Army Corps of Engineers under the process will be considered by this department in our determination regarding the issuance of such a certification.

If you have any questions regarding our comments, please feel free to contact this office.

Sincerely,

L. David Glatt, Chief
Environmental Health Section

LDG:cc
Attach.

NORTH DAKOTA DEPARTMENT OF HEALTH
Environmental Health Section

Location:
1200 Missouri Avenue
Bismarck, ND 58504-5264

Fax #:
701-328-5200

Mailing Address:
P.O. Box 5520
Bismarck, ND 58506-5520

December 2000

Construction and Environmental Disturbance Requirements

These represent the minimum requirements of the North Dakota Department of Health. They ensure that minimal environmental degradation occurs as a result of construction or related work which has the potential to affect the waters of the State of North Dakota. All projects will be designed and implemented to restrict the losses or disturbances of soil, vegetative cover, and pollutants (chemical or biological) from a site.

Soils

Prevent the erosion of exposed soil surfaces and trapping sediments being transported. Examples include, but are not restricted to, sediment dams or berms, diversion dikes, hay bales as erosion checks, riprap, mesh or burlap blankets to hold soil during construction, and immediately establishing vegetative cover on disturbed areas after construction is completed. Fragile and sensitive areas such as wetlands, riparian zones, delicate flora, or land resources will be protected against compaction, vegetation loss, and unnecessary damage.

Surface Waters

All construction which directly or indirectly impacts aquatic systems will be managed to minimize impacts. All attempts will be made to prevent the contamination of water at construction sites from fuel spillage, lubricants, and chemicals, by following safe storage and handling procedures. Stream bank and stream bed disturbances will be controlled to minimize and/or prevent silt movement, nutrient upsurges, plant dislocation, and any physical, chemical, or biological disruption. The use of pesticides or herbicides in or near these systems is forbidden without approval from this Department.

Fill Material

Any fill material placed below the high water mark must be free of top soils, decomposable materials, and persistent synthetic organic compounds (in toxic concentrations). This includes, but is not limited to, asphalt, tires, treated lumber, and construction debris. The Department may require testing of fill materials. All temporary fills must be removed. Debris and solid wastes will be removed from the site and the impacted areas restored as nearly as possible to the original condition.

File 9B CEVA
KCS # 03-012
File 11-B-1

STATE HISTORICAL SOCIETY OF NORTH DAKOTA

May 23, 2003

Heidi Durako, 319 CES/CEVA
525 Tuskegee Airmen Blvd
Grand Forks AFB, ND 58205-6434

ND SHPO Ref.: 97-0527, DOPAAs, Fire Station, Control Tower, and Radar Approach Control Facility, Grand Forks Air Force Base, North Dakota.

Dear Ms. Durako:

We have reviewed: *Description of Proposed Action and Alternatives for an Environmental Assessment to Construct a Fire Station/Control Tower/Rapcon at Grand Forks Air Force Base North Dakota.*

Buildings 530 (fire station), 634 (ATC tower), and 635 (RAPCON facility) are not among the buildings that are National Register eligible. As a result, no National Register eligible properties will be affected by the projects proposed in the DOPAAs.

We look forward to continuing to work with your department on projects requiring Section 106 review, and thank you for the opportunity to review this project. Please include the ND SHPO Reference number listed above in any further correspondence for this specific project. If you have any questions please contact Duane Klinner at (701) 328-3576.

Sincerely,

Merlan E. Paaverud, Jr.
State Historic Preservation Officer
(North Dakota)

FLDO 9B CEVA MYD
REC #03-013

GEO-MARINE, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES

30 June 2003

Mr. Robert Lopez
HQ AFCEE
3300 Sidney Brooks
Brooks City-Base, TX 78235-5112

Re: Contractor's Progress, Status, and Management Report (CDRL B005)
Period 1 to 30 June 2003, Report No. 4
Contract Number F41624-01-D-8556, Task Order 0048
Environmental Assessment to Construct Fire Station/Control Tower/RAPCON at Grand Forks AFB, North Dakota

Dear Mr. Lopez:

Geo-Marine, Inc. (GMI) is pleased to submit this Contractor's Progress, Status, and Management Report (CPSMR) on the above-referenced project to the Air Force Center for Environmental Excellence (AFCEE). The CPSMR has been sent in both hard copy and electronic format. If you have questions concerning this report or any aspect of the project, please contact me at (757) 873-3702.

Sincerely,

Joseph J. Campo, Ph.D.
Project Manager

Attachment: CPSMR

cc: Ms. Heidi Durako, Project Manager, 319 CES/CEVA, (Hard Copy & Electronic)
Mr. Gerardo Villarreal, HSW/PKVAB, Brooks City-Base, (Hard Copy)
AFCEE /MSCD, Brooks City Base, (Transmittal Letter Only)
Elizabeth Pruitt, GMI QAM, GMI-Newport News (Electronic)
Shawna Chapman, GMI Contracts Administrator, GMI-Plano (Electronic)
GMI File No: 12560.00.48

GEO-MARINE, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES

PROJECT STATUS REPORT

REPORT DATE:	June 30, 2003	**REPORT PERIOD:**	1-30 June 2003
CONTRACT NO:	F41624-01-D-8556	**TASK ORDER:**	0048
GMI NUMBER:	12560.00.48	**PROJECT MGR:**	Joseph Campo
CLIENT NAME:	Air Force Center for Environmental Excellence	**TECHNICAL REP:**	Mr. Robert Lopez
PROJECT NAME:	Environmental Assessment to Construct Fire Station/Control Tower/RAPCON at Grand Forks AFB, North Dakota		

CURRENT PERIOD ACTIVITIES AND PROGRESS:

Geo-Marine, Inc. (GMI) submitted electronic and bound copies of the draft environmental assessment (EA) to the COR and 319 CES/CEV. GMI received a copy of the review comments from the North Dakota Department of Health and included the comments as part of the appendix to the EA.

RESULTS OF PREVIOUSLY IDENTIFIED ISSUES:

None.

CHANGES TO THE PROJECT TEAM OR APPROACH:

None.

PROBLEM AREAS:

None.

CURRENT AND CUMULATIVE COST SUMMARY:

Individual tasks and their status are tabulated below.

Task	Status
Post Award Teleconference	100% Complete
Kickoff Meeting/Site Visit	100% Complete
Draft DOPAA	100% Complete
Final DOPAA	100% Complete
Draft Final Internal EA	100% Complete
Draft Final Public EA	0% Complete
Final Internal EA	0% Complete
Final Public EA	0% Complete

The project costs to date are shown in the table below. GMI considers this project to be 70% complete and 70% spent.

Contract Value	$ 33,278.00		
Prior Period Cumulative Cost	$ 18,300.00	Prior Period Cumulative % Complete	55%
Current Period Cost	$ 5,000.00	Current Period % Complete	15%
Current Cumulative Cost	$ 23,300.00	Current Cumulative % Complete	70%

FUTURE PLANS:

GMI will coordinate with the PM and COR as necessary for preparation of the draft final public EA. Upon notice, GMI will publish the notice of availability for the finding of no significant impact.

File 9B CEVA MND
CCS # 03-018

GEO-MARINE, INC.

11846 Rock Landing Dr., Suite C
Newport News, Virginia 23606
phone: 757.873.3702
email: gmi@geo-marine.com
fax: 757.873.3703
website: geo-marine.com

30 June 2003

Mr. Robert Lopez
HQ AFCEE
3300 Sidney Brooks
Brooks City-Base, Texas 78235-5344

Re: Contract Number F41624-01-D-8556-0048
Environmental Assessment to construct fire station, air traffic control tower, and radar approach control facilities at Grand Forks Air Force Base, North Dakota

Dear Mr. Lopez,

Enclosed please find one electronic copy (CD-R) of the Draft Final Environmental Assessment for the above referenced project. As we discussed, one electronic copy has been sent to Ms. Heidi Durako. This document is provided as requested for a quick review prior to authorizing the preparation of the draft final EA for public review. Please call me at (757) 873-3702 if you have any questions regarding this report. Thank you for your support.

Sincerely,

Joseph J. Campo, Ph.D.
Senior Environmental Project Manager

Enclosure: Draft Final EA and CD-R

cc:
Alice Blakey – AFCEE /MSCD
Heidi Durako – GFAFB natural and cultural resources manager
Gerardo Villarreal -HSW/PKV Contract Officer
Tony Cecchi – GMI Business Resources Manager
Elizabeth Pruitt, GMI Office Manager Newport News, VA

GMI File No: 12560.00.48

FILE 9B CEVA/ND
KCSH 03-D1B

NORTH DAKOTA DEPARTMENT OF HEALTH
Environmental Health Section

Location:
1200 Missouri Avenue
Bismarck, ND 58504-5264

Fax #:
701-328-5200

Mailing Address:
P.O. Box 5520
Bismarck, ND 58506-5520

July 8, 2003

Ms. Heidi Durako
319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

Re: Environmental Assessment for Proposed Construction of a
Fire Station, Control Tower and Radar Approach Control Facility
Grand Forks Air Force Base, Grand Forks County

Dear Ms. Durako:

This department has reviewed the information concerning the above-referenced project submitted under date of July 2, 2003, with respect to possible environmental impacts.

This department believes that environmental impacts from the proposed construction and demolition will be minor and can be controlled by proper construction and demolition methods. With respect to the construction and demolition, our comments remain the same as in our May 16, 2003 response to you (copy attached).

If you have any questions regarding our comments, please feel free to contact this office.

Sincerely,

L. David Glatt, Chief
Environmental Health Section

LDG:cc
Attach.

NORTH DAKOTA DEPARTMENT OF HEALTH
Environmental Health Section

Location:
1200 Missouri Avenue
Bismarck, ND 58504-5264

Fax #:
701-328-5200

Mailing Address:
P.O. Box 5520
Bismarck, ND 58506-5520

May 16, 2003

Ms. Heidi Durako
319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

Re: Environmental Assessment for Proposed Construction of a
Fire Station, Control Tower and Radar Approach Control Facility
Grand Forks Air Force Base, Grand Forks County

Dear Ms. Durako:

This department has reviewed the information concerning the above-referenced project submitted under date of May 13, 2003, with respect to possible environmental impacts.

This department believes that environmental impacts from the proposed construction will be minor and can be controlled by proper construction methods. With respect to construction, we have the following comments:

1. All necessary measures must be taken to minimize fugitive dust emissions created during demolition activities. Any complaints that may arise are to be dealt with in an efficient and effective manner.

2. Care is to be taken during construction activity near any water of the state to minimize adverse effects on a water body. This includes minimal disturbance of stream beds and banks to prevent excess siltation, and the replacement and revegetation of any disturbed area as soon as possible after work has been completed. Caution must also be taken to prevent spills of oil and grease that may reach the receiving water from equipment maintenance, and/or the handling of fuels on the site. Guidelines for minimizing degradation to waterways during construction are attached.

3. Projects disturbing one or more acres are required to have a permit to discharge storm water runoff until the site is stabilized by the reestablisment of vegetation or other permanent cover. Also, cities may impose additional requirements and/or specific best management practices for construction affecting their storm drainage system. Check with the local officials to be sure any local storm water management considerations are addressed.

4. All necessary measures must be taken to minimize the disturbance of any asbestos-containing material and to prevent any asbestos fiber release episodes. Removal of any

friable asbestos-containing material must be accomplished in accordance with section 33-15-13-02 of the North Dakota air pollution control rules.

The department owns no land in or adjacent to the proposed improvements, nor does it have any projects scheduled in the area. In addition, we believe the proposed activities are consistent with the State Implementation Plan for the Control of Air Pollution for the State of North Dakota.

These comments are based on the information provided about the project in the above-referenced submittal. The U.S. Army Corps of Engineers may require a water quality certification from this department for the project if the project is subject to their Section 404 permitting process. Any additional information which may be required by the U.S. Army Corps of Engineers under the process will be considered by this department in our determination regarding the issuance of such a certification.

If you have any questions regarding our comments, please feel free to contact this office.

Sincerely,

L. David Glatt, Chief
Environmental Health Section

LDG:cc
Attach.

NORTH DAKOTA DEPARTMENT OF HEALTH
Environmental Health Section

Location:
1200 Missouri Avenue
Bismarck, ND 58504-5264

Fax #:
701-328-5200

Mailing Address:
P.O. Box 5520
Bismarck, ND 58506-5520

December 2000

Construction and Environmental Disturbance Requirements

These represent the minimum requirements of the North Dakota Department of Health. They ensure that minimal environmental degradation occurs as a result of construction or related work which has the potential to affect the waters of the State of North Dakota. All projects will be designed and implemented to restrict the losses or disturbances of soil, vegetative cover, and pollutants (chemical or biological) from a site.

Soils

Prevent the erosion of exposed soil surfaces and trapping sediments being transported. Examples include, but are not restricted to, sediment dams or berms, diversion dikes, hay bales as erosion checks, riprap, mesh or burlap blankets to hold soil during construction, and immediately establishing vegetative cover on disturbed areas after construction is completed. Fragile and sensitive areas such as wetlands, riparian zones, delicate flora, or land resources will be protected against compaction, vegetation loss, and unnecessary damage.

Surface Waters

All construction which directly or indirectly impacts aquatic systems will be managed to minimize impacts. All attempts will be made to prevent the contamination of water at construction sites from fuel spillage, lubricants, and chemicals, by following safe storage and handling procedures. Stream bank and stream bed disturbances will be controlled to minimize and/or prevent silt movement, nutrient upsurges, plant dislocation, and any physical, chemical, or biological disruption. The use of pesticides or herbicides in or near these systems is forbidden without approval from this Department.

Fill Material

Any fill material placed below the high water mark must be free of top soils, decomposable materials, and persistent synthetic organic compounds (in toxic concentrations). This includes, but is not limited to, asphalt, tires, treated lumber, and construction debris. The Department may require testing of fill materials. All temporary fills must be removed. Debris and solid wastes will be removed from the site and the impacted areas restored as nearly as possible to the original condition.

FILE 9B CEVH HYD
KCS # 03-01

STATE HISTORICAL SOCIETY OF NORTH DAKOTA

July 17, 2003

Heidi Durako, 319 CES/CEVA
525 Tuskegee Airmen Blvd
Grand Forks AFB, ND 58205-6434

ND SHPO Ref.: 97-0527, Draft EA, Fire Station, Control Tower, and Radar Approach Control Facility, Grand Forks Air Force Base, North Dakota.

Dear Ms. Durako:

We have reviewed: *Environmental Assessment: Construct Fire Station/Control Tower/RAPCON at Grand Forks Air Force Base North Dakota.*, draft version, July 2003, and have the following comment:

Section 3.6.1, Page 3-8 - We recommend changing "The other materials in isolated finds were prehistoric and historic finds" to something similar to: "The isolated finds consist of low density prehistoric and historic artifact locations."

We look forward to continuing to work with your department on projects requiring Section 106 review, and thank you for the opportunity to review this project. Please include the ND SHPO Reference number listed above in any further correspondence for this specific project. If you have any questions please contact Duane Klinner at (701) 328-3576.

Sincerely,

Merlan E. Paaverud, Jr.
State Historic Preservation Officer
(North Dakota)

North Dakota Heritage Center • 612 East Boulevard Avenue, Bismarck, ND 58505-0830 • Phone 701-328-2666 • Fax: 701-328-3710
Email: histsoc@state.nd.us • Web site: http://DiscoverND.com/hist • TTY: 1-800-366-6888

FILE 9B CEVA HZD
RCS#08-012

GEO-MARINE, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES

July 31, 2003

Mr. Robert Lopez
HQ AFCEE
3300 Sidney Brooks
Brooks City-Base, TX 78235-5112

Re: Contractor's Progress, Status, and Management Report (CDRL B005)
Period 1 to 30 July 2003, Report No. 5
Contract Number F41624-01-D-8556, Task Order 0048
Environmental Assessment to Construct Fire Station/Control Tower/RAPCON at Grand Forks AFB, North Dakota

Dear Mr. Lopez:

Geo-Marine, Inc. (GMI) is pleased to submit this Contractor's Progress, Status, and Management Report (CPSMR) on the above-referenced project to the Air Force Center for Environmental Excellence (AFCEE). The CPSMR has been sent in both hard copy and electronic format. If you have questions concerning this report or any aspect of the project, please contact me at (757) 873-3702.

Sincerely,

Joseph J. Campo, Ph.D.
Project Manager

Attachment: CPSMR

cc: Ms. Heidi Durako, Project Manager, 319 CES/CEVA, (Hard Copy & Electronic)
Mr. Gerardo Villarreal, HSW/PKVAB, Brooks City-Base, (Hard Copy)
AFCEE /MSCD, Brooks City Base, (Transmittal Letter Only)
Elizabeth Pruitt, GMI QAM, GMI-Newport News (Electronic)
Shawna Chapman, GMI Contracts Administrator, GMI-Plano (Electronic)
GMI File No: 12560.00.48

GEO-MARINE, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES

PROJECT STATUS REPORT

REPORT DATE:	July 31, 2003	**REPORT PERIOD:**	1-31 July 2003
CONTRACT NO:	F41624-01-D-8556	**TASK ORDER:**	0048
GMI NUMBER:	12560.00.48	**PROJECT MGR:**	Joseph Campo
CLIENT NAME:	Air Force Center for Environmental Excellence	**TECHNICAL REP:**	Mr. Robert Lopez
PROJECT NAME:	Environmental Assessment to Construct Fire Station/Control Tower/RAPCON at Grand Forks AFB, North Dakota		

CURRENT PERIOD ACTIVITIES AND PROGRESS:

Geo-Marine, Inc. (GMI) submitted bound copies of the Draft Final Environmental Assessment (EA) to the Technical Representative and Project Manager (PM) at Grand Forks AFB. As directed by the Project Manager at Grand Forks AFB, the EA was been submitted to the Grand Forks Public Library, North Dakota Department of Health, and State Historical Society of North Dakota for a 30-day review period. In addition, a request for publishing the Notice Of Availability (NOA) for the EA and Finding Of No Significant Impact (FONSI) in the *Grand Forks Herald* was made on 2 July 2003. GMI was advised by the *Grand Forks Herald* newspaper that the NOA was not published as requested because of miscommunication. GMI re-authorized the NOA publication to start on 17 July for three days. GMI requested that the EA be retained for public availability through 14 August. GMI received a copy of the review comments on the Draft Final EA from the North Dakota Department of Health and State Historical Society of North Dakota. These comments have been included as part of the appendix to the EA.

RESULTS OF PREVIOUSLY IDENTIFIED ISSUES:

None.

CHANGES TO THE PROJECT TEAM OR APPROACH:

None.

PROBLEM AREAS:

None.

CURRENT AND CUMULATIVE COST SUMMARY:

Individual tasks and their status are tabulated below.

Task	Status
Post Award Teleconference	100% Complete
Kickoff Meeting/Site Visit	100% Complete
Draft DOPAA	100% Complete
Final DOPAA	100% Complete
Draft Final Internal EA	100% Complete
Draft Final Public EA	100% Complete
Final Internal EA	0% Complete
Final Public EA	0% Complete

The project costs to date are shown in the table below. GMI considers this project to be 76% complete and 76% spent.

Contract Value	$ 33,278.00		
Prior Period Cumulative Cost	$ 23,300.00	Prior Period Cumulative % Complete	70%
Current Period Cost	$ 2,000.00	Current Period % Complete	6%
Current Cumulative Cost	$ 25,300.00	Current Cumulative % Complete	76%

FUTURE PLANS:

GMI will coordinate with the PM and Technical Representative as necessary for preparation of the Final EA.

File 9B GEVA RCS03-012 DRD

GMI
GEO-MARINE INCORPORATED
11846 Rock Landing Dr., Suite C Newport News, VA 23606 ph: 757.873.3702 fax: 757.873.3703
www.geo-marine.com

18 August 2003

Mr. Robert Lopez
HQ AFCEE
3300 Sidney Brooks
Brooks City-Base, Texas 78235-5344

Re: Contract Number F41624-01-D-8556-0048
Environmental Assessment to construct fire station, air traffic control tower, and radar approach control facilities at Grand Forks Air Force Base, North Dakota

Dear Mr. Lopez,

Enclosed please find one bound copy and one CD-R of the Final Environmental Assessment on the above referenced project. [redacted] Grand Forks AFB. The CD-R contains the document in MS Word format. Please call me at (757) 873-3702 if you have any questions regarding this deliverable. Thanks to everyone that helped in completion of this environmental assessment.

Sincerely,

Joseph J. Campo, Ph.D.
Senior Environmental Project Manager

Enclosure: Final EA

cc: Tony Cecchi -- Business Resources Manager
Alice Blakey – AFCEE /MSCD
Heidi Durako – GFAFB natural and cultural resources manager (5 copies/CD-R)
Gerardo Villarreal -HSW/PKV Contract Officer
Elizabeth Pruitt, GMI Office Manager Newport News, VA
Dan Wilkinson, GMI Vice President Environmental Resources Division, Plano TX

GMI File No: 12560.00.48

File 9B CEVA
HYD
KCS #03-012

GEO-MARINE, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES

August 31, 2003

Mr. Robert Lopez
HQ AFCEE
3300 Sidney Brooks
Brooks City-Base, TX 78235-5112

Re: Contractor's Progress, Status, and Management Report (CDRL B005)
Period 1 to 31 August 2003, Report No. 6
Contract Number F41624-01-D-8556, Task Order 0048
Environmental Assessment to Construct Fire Station/Control Tower/RAPCON at Grand Forks AFB, North Dakota

Dear Mr. Lopez:

Geo-Marine, Inc. (GMI) is pleased to submit this final Contractor's Progress, Status, and Management Report (CPSMR) on the above-referenced project to the Air Force Center for Environmental Excellence (AFCEE). The CPSMR has been sent in both hard copy and electronic format. If you have questions concerning this report or any aspect of the project, please contact me at (757) 873-3702.

Sincerely,

Joseph J. Campo, Ph.D.
Project Manager

Attachment: CPSMR

cc: Ms. Heidi Durako, Project Manager, 319 CES/CEVA, (Hard Copy & Electronic)
Mr. Gerardo Villarreal, HSW/PKVAB, Brooks City-Base, (Hard Copy)
AFCEE /MSCD, Brooks City Base, (Transmittal Letter Only)
Elizabeth Pruitt, GMI QAM, GMI-Newport News (Electronic)
Shawna Chapman, GMI Contracts Administrator, GMI-Plano (Electronic)
GMI File No: 12560.00.48

GEO-MARINE, INC.
ENGINEERING AND ENVIRONMENTAL SERVICES

PROJECT STATUS REPORT

REPORT DATE:	August 31, 2003	**REPORT PERIOD:**	1-31 August 2003
CONTRACT NO:	F41624-01-D-8556	**TASK ORDER:**	0048
GMI NUMBER:	12560.00.48	**PROJECT MGR:**	Joseph Campo
CLIENT NAME:	Air Force Center for Environmental Excellence	**TECHNICAL REP:**	Mr. Robert Lopez
PROJECT NAME:	Environmental Assessment to Construct Fire Station/Control Tower/RAPCON at Grand Forks AFB, North Dakota		

CURRENT PERIOD ACTIVITIES AND PROGRESS:

Geo-Marine, Inc. (GMI) coordinated with the Project Manager (PM) at Grand Forks AFB on the closing of the public comment period for the FONSI. No comments were received. GMI submitted one bound copy and one CD-R (MS Word format) of the Final Environmental Assessment on the above referenced project. Five bound copies and one CD-R were sent to the PM.

RESULTS OF PREVIOUSLY IDENTIFIED ISSUES:

None.

CHANGES TO THE PROJECT TEAM OR APPROACH:

None.

PROBLEM AREAS:

None.

CURRENT AND CUMULATIVE COST SUMMARY:

Individual tasks and their status are tabulated below.

Task	Status
Post Award Teleconference	100% Complete
Kickoff Meeting/Site Visit	100% Complete
Draft DOPAA	100% Complete
Final DOPAA	100% Complete
Draft Final Internal EA	100% Complete
Draft Final Public EA	100% Complete
Final Internal EA	100% Complete
Final Public EA	100% Complete

The project costs to date are shown in the table below. GMI considers this project to be 100% complete and 100% spent.

Contract Value	$ 33,278.00		
Prior Period Cumulative Cost	$ 25,300.00	Prior Period Cumulative % Complete	76%
Current Period Cost	$ 7,978.00	Current Period % Complete	24%
Current Cumulative Cost	$ 33,278.00	Current Cumulative % Complete	100%

FUTURE PLANS:

None, GMI has completed all tasks for preparation of the Final EA.

Full GB CEVA
RCS# 03-018

FACILITY DISPOSAL

DATE: 20010626

FORM APPROVED
OMB NO. 0704-0188

NAME AND LOCATION OF INSTALLATION	COMMAND	INSTALLATION CODE.
Grand Forks AFB, North Dakota 58205	AMC	JFSD

OBTAIN INFORMATION FOR COLUMNS A THROUGH F FROM RCS: HAF-LEE(AR)7115

FACILITY NUMBER A	CATEGORY CODE B	NOMENCLATURE C	U OF M D	QUANTITY E	COST F	DISPOSAL VALUE G
530	730-142	Fire Station	SF	21266	$1,176,282.00	$0.00

CONDITIONS PROMPTING DISPOSAL *(See AFI32-9004 for required attachments)*

This building houses fire-protection vehicles, equipment and operating personnel of the base fire department. Constructed in 1957 as the main fire station and located near the flight line. Combining the 2 current fire stations into one complex this building will no longer be a required. It would not be cost effective to try and redesign it for another function and try to bring it up to AMC standards. On 19 Jan 2001 the Grand Forks AFB Facility Board approved to demolish this fire station under the base master plan and is scheduled on a work order for disposal.

I HEREBY CERTIFY DISPOSAL ACTION HAS CLEARED ALL ENVIRONMENTAL REQUIREMENTS.

TYPED NAME AND GRADE OF ENVIRONMENTAL ENGINEER	SIGNATURE
WAYNE A. KOOP, R.E.M., GM-13 Environmental Management Flight Chief	

INDICATE IN APPLICABLE BOX IF SCREENING HAS OR HAS NOT BEEN MADE WITH ARMY OR NAVY *(If "NO", explain)*

☐ YES ☒ NO

ACTIONS BY INSTALLATIONS FACILITIES BOARD

ACTION				DISPOSAL ACTION				
	DISAPPROVED		APPROVED		SALE		SALVAGE	OTHER *(Specify)*
	RECOMMENDED FOR APPROVAL			DISPOSAL TO BE COMPLETED ON OR BEFORE				

TYPED NAME AND GRADE OF FACILITIES BOARD RECORDER	SIGNATURE	DATE
KEN JOHNSON, GM-13 Chief, Engineering Flight		

ACTIONS BY APPROVING COMMAND

DISPOSAL ACTION				DISPOSAL ACCOMPLISHED BY				
	DISAPPROVED		APPROVED		SALE		SALVAGE	OTHER *(Specify)*
	RECOMMENDED FOR APPROVAL			DISPOSAL TO BE COMPLETED ON OR BEFORE				

TYPED NAME AND GRADE OF MAJCOM APPROVING OFFICIAL	SIGNATURE	DATE
DAVID S. GRAY, Col., USAF Commander, 319 ARW		

RCS#03-012

DEPARTMENT OF THE AIR FORCE
319TH CIVIL ENGINEER SQUADRON
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

06 OCT 2003

MEMORANDUM FOR NORTH DAKOTA DIVISION OF COMMUNITY SERVICES
ATTENTION: Jim Boyd
14th Floor State Capitol Building
600 East Blvd
Bismarck ND 58502-0170

FROM: 319 CES/CEV
525 Tuskegee Airmen Blvd
Grand Forks AFB ND 58205-6434

SUBJECT: Finding of No Significant Impact (FONSI)

1. Attached for your information is the FONSI for the construction of a new fire station, air traffic control tower, and radar approach control facility on Grand Forks AFB.

2. The FONSI is being submitted to your office in accordance with Air Force Instruction 32-7061 which requires Grand Forks AFB to notify the OMB Circular Clearing House whenever a FONSI has been completed.

3. If you have any questions concerning this matter, please contact Ms. Heidi Durako, 319 CES/CEVA at (701) 747-4774.

WAYNE A. KOOP
Environmental Management Flight Chief

Attachment:
1. FONSI

RCS#03-012
FILE 9B CEVA LH/LD

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 319TH AIR REFUELING WING (AMC)
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

26 September 2003

MEMORANDUM FOR 319 ARW/CV

FROM: 319 ARW/JA

SUBJECT: Construct Fire Station/Air Traffic Control Tower/RAPCON Project

1. I reviewed the Environmental Assessment (EA) and Findings of No Significant Impact (FONSI) for the above-referenced projects. The proposed EA and FONSI are both legally sufficient and comply with the requirements of 32 CFR Part 989. 319 ARW/CV in his capacity as Environmental Protection Committee Chairperson is the FONSI approval authority. I recommend that 319 ARW/CV sign the FONSI.

2. The EA contains the need for the proposal, alternatives to the proposal, environmental impacts of the proposed action and alternatives, and a listing of agencies and persons consulted for EA preparation. The EA and FONSI were made available for public comment in the *Grand Forks Herald* (17, 19 and 22 Jul 03). No comments were received. From a legal perspective these projects do not have a significant environmental impact. Therefore, a FONSI is appropriate.

3. If you have any questions about these comments, please contact me at 7-3606.

Mark W. Hanson
MARK W. HANSON, GS-12, DAF
Chief, General Law

I concur.

Barr D. Younker Jr.
BARR D. YOUNKER, JR., Lt Col, USAF
Staff Judge Advocate

1026

AFFIDAVIT OF PUBLICATION

Public Notices

Notice of Availability
Draft Environmental Assessment and Draft Finding of No Significant Impact to Construct Fire Station/Air Traffic Control Tower/Rapcon at Grand Forks Air Force Base, North Dakota

In accordance with the National Environmental Policy Act (NEPA) of 1969 and the Council on Environmental Quality regulations implementing NEPA, an Environmental Assessment (EA) has been prepared to analyze the potential environmental consequences of constructing a new fire station, Air Traffic Control (ATC) Tower, and Radar Approach Control (RAPCON) at Grand Forks Air Force Base, North Dakota. The Air Force proposes to demolish the old fire station and ATC tower, and implement environmental controls during construction and demolition activities to protect the environment. The Draft EA and Draft Finding of No Significant Impact, dated July 2003, are available for review at the following location:
Grand Forks Public Library
2110 Library Circle
Grand Forks, ND 58201

Public comments on the EA will be accepted through Aug. 14, 2003. Written comments on the EA should be directed to Ms. Heidi Durako, 319 CES/CEVA, 525 Tuskegee Airmen Blvd, Grand Forks AFB, ND 58205. Fax: (701) 747-6155. Email: heidi.durako@grandforks.af.mil.

(July 17, 19, & 22, 2003)

Publication Fee $ 66.24

STATE OF NORTH DAKOTA }
COUNTY OF GRAND FORKS } SS.

[signature] of said State and County being first duly sworn, on oath says:

That {she / he} is { a representative of the GRAND FORKS HERALD, INC.,

publisher of the Grand Forks Herald, Morning Edition, a daily newspaper of general circulation, printed and published in the City of Grand Forks, in said County and State, and has been during the time hereinafter mentioned, and that the advertisement of Environmental Assessment

a printed copy of which is hereto annexed, was printed and published in every copy of the following issues of said newspaper, for a period of 3 time (s) to wit:

7-17	Yr. 03		Yr.
7-19	Yr. 03		Yr.
7-22	Yr. 03		Yr.
	Yr.		Yr.

and that the full amount of the fee for the publication of the annexed notice inures solely to the benefit of the publishers of said newspaper; that no agreement or understanding for a division thereof has been made with any other person and that no part thereof has been agreed to be paid to any person whomsoever and the amount of said fee is $ 66.24.

That said newspaper was, at the time of the aforesaid publication, the duly elected and qualified Official Newspaper within said County, and qualified in accordance with the law of the State of North Dakota to do legal printing in said County and State.

ELAINE FAWCETT
NOT[illegible]
STATE O[illegible]OTA
My Commission Expires: Feb. 7, 2007

Subscribed and sworn to before me this 28 day of July A.D. 03

[signature: Elaine Fawcett]
Notary Public, Grand Forks, ND

319 ARW Correspondence Routing Slip

Subject: Construct Fire Station/Air Traffic Control Tower/RAPCON Proj.

Date Received: 29 Sep 03

03-0569	In	Out	Remarks
CCA	29/9	29/9	
CCC			
CCE	29 Sep	2 Oct	Col Wayne [illegible]
[illegible]			
CCP			
SEC	2 Oct	2 Oct	Vmj
CV	2 Oct	2 Oct	D Done!
~~CC~~			

P/U By:	Date:
Sent To:	Date:

ROUTING AND TRANSMITTAL SLIP

Date: 23 Aug 03

TO: (Name, office symbol, room number, building, Agency/ Post)	Initials	Date
1. 319 CES/CEVS	[illegible]	8-28-03
2. CEV	[illegible]	26 Aug
3. CD	MCG	26 Aug
4. CC	[illegible]	2 Sep
5.		

	Action		File		Note and Return
	Approval		For Clearance		Per Conversation
	As Requested		For Correction		Prepare Reply
	Circulate		For Your Information		See Me
	Comment		Investigate	4	Signature
1,2,3	Coordination		Justify		

REMARKS

Staff Summary Sheet
Environmental Assessment
Construct Fire Station / Control Tower / RAPCON

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/ Post)	Room No. — Bldg.
Neidi Durako 319 CES/CEVA	Phone No. 7-4774

NSN 7540-00-935-5862
5041-103

OPTIONAL FORM 41 (Rev. 1-94)
Prescribed by GSA
UNICOR FPI - SST

STAFF SUMMARY SHEET

	TO	ACTION	SIGNATURE *(Surname)*, GRADE AND DATE		TO	ACTION	SIGNATURE *(Surname)*, GRADE AND DATE
1	319 MSG/CD	Cord	Tarbett, Lt Col 16 Sep 03	6			
2	319 MSG/CC	Cord	Cline Col 23 Sept 03	7			
3	319 ARW/JA	Cord	Younkers LtCol 27Sep03 written legal rev. completed.	8			
4	319 ARW/CV	Sign	[signature] Col Wayne 2 OCT 03	9			
5				10			

SURNAME OF ACTION OFFICER AND GRADE	SYMBOL	PHONE	TYPIST'S INITIALS	SUSPENSE DATE
Ms. Durako GS-11	319 CES/CEVA	7-4774	hld	

SUBJECT	DATE
Construct Fire Station/Air Traffic Control Tower/RAPCON Project, Environmental Assessment	2 Sep 03

SUMMARY

1. The Environmental Management Flight has received the contractor completed Environmental Assessment (EA) for the Construct Fire Station/Air Traffic Control Tower/RAPCON Project (Tab 1), per AFI 32-7061. The EA, which resulted in a Finding of No Significant Impact (FONSI), requires the signature of the Environmental Protection Committee Chairman before a notice to proceed (NTP) can be issued.

2. The AMC/CEV delegation letter at Tab 2 authorizes the EPC chairman to sign MILCON and EA/FONSI documents.

3. The Notice of Availability was published in the Grand Forks Herald on 17, 19, and 22 Jul 2003. No comments were received.

4. RECOMMENDATION: The 319 ARW/CV, EPC Chairman, sign the FONSI at Tab 1.

[signature]
PATRICK F. FOGARTY, Lt Col, USAF
Base Civil Engineer

3 Tabs
1. Environmental Assessment
2. Delegation of Approval Authority, 10 May 94
3. Notice of Availability, Grand Forks Herald

File 9B CEVA
RCS # 03-012

DRAFT WORK PLAN

Environmental Assessment for
Construct Fire Station/Control Tower/RAPCON
Grand Forks AFB, North Dakota

Contract Number F41624-01-D-8556
Task Order 0048

Prepared for:
Department of the Air Force
Headquarters 311th Human Systems Wing
Air Force Materiel Command
and
Air Force Center for Environmental Excellence
Brooks City-Base, Texas

Prepared by:

GEO-MARINE INCORPORATED

Geo-Marine, Inc.
Newport News, Virginia

21 March 2003

1.0 INTRODUCTION

This work plan describes our technical and management approach for preparing an Environmental Assessment (EA) and, if applicable, a Finding of No Significant Impact (FONSI) addressing proposed construction of a fire station, control tower, and radar approach control facility (RAPCON) at Grand Forks Air Force Base (AFB), North Dakota. This work plan has been prepared in accordance with the Geo-Marine, Inc., (GMI) Quality Assurance Program. This project is administered by the Department of the Air Force, Headquarters 311th Human Systems Wing, Air Force Materiel Command at Brooks City-Base, Texas, and prepared to support the 319 CES/CEVA at Grand Forks AFB. It will be performed under the Environmental Minor Construction and Operations & Services (EMCOS) Contract at Air Force Center for Environmental Excellence (AFCEE), Number F41624-01-D-8556, Task Order (TO) 0048.

2.0 BACKGROUND

The fire station and air traffic control tower at Grand Forks AFB are severely undersized. The main fire station does not meet airfield response time requirements and the use of a satellite fire station would be inefficient. The air traffic control tower is one-third the size of most Air Force tower cabs and does not meet the current Air Force or Federal Aviation Administration standards. The existing RAPCON is outdated and inefficient because of its separation from the control tower. The EA shall provide environmental analyses for three alternatives: preferred alternative to construct a new fire station and control tower/RAPCON, an alternative location for siting, and the no action alternative. The EA shall provide sufficient evidence and analysis for determining whether the decision-maker at Grand Forks AFB should prepare an Environmental Impact Statement or prepare and sign a FONSI. GMI will prepare appropriate notification for public review and comments on the final document. A request for environmental impact analysis (AF Form 813) has been prepared by 319 CES/CD and reviewed by 319 CES/CEVA. The 319 CES/CD concluded that the proposed action is not regionally significant and does not qualify for a categorical exclusion.

3.0 ADMINISTRATIVE AND MANAGERIAL REQUIREMENTS

GMI will perform management and planning functions, performance measures, and cost status reporting as specified in the TO. Unless otherwise directed, GMI will submit hard copy and electronic deliverables to the AFCEE/ECE Contracting Officer Representative (COR) and the 319 CES/CEVA point-of-contact (POC).

4.0 MANAGEMENT, PLANNING, AND REPORTING REQUIREMENTS

GMI will prepare and submit all deliverables in accordance with the TO. GMI will coordinate with other government agencies, as directed by the AFCEE/ECE COR and/or the 319 CES/CEVA POC, regarding environmental issues required for completion of the project.

4.1 Meetings and Teleconferences

The activities under this TO include overall project management, participation in meetings, and task coordination. GMI has conducted a post award teleconference with Grand Forks AFB personnel, and HQ AFCEE/ECE to review the service requirements in the TO. In addition, one

post award kickoff meeting will be held at Grand Forks AFB to review this work plan (CDRL A008) and begin development of the EA. Meeting minutes (CDRL B001) and list of attendees will be prepared by GMI and submitted to the AFCEE COR and the 319 CES/CEVA POC within ten calendar days of the meeting. Progress meetings will be conducted by teleconference as needed and meeting minutes will be submitted as required.

4.2 Contractor's Progress, Status, and Management Report (CPSMR)

GMI will submit a CPSMR (CDRL B005) monthly to the CO, AFCEE COR, and 319 CES/CEVA POC for review and evaluation of the overall progress of the project and any existing or potential problem areas. The CPSMR will include the following:

- Status of current project activities and progress
- Results of previously identified issues
- Changes to project team or approach
- Identification of problem areas and proposed solutions
- Corrective actions taken
- Schedule status
- Current and cumulative cost
- Future plans

5.0 TECHNICAL APPROACH

GMI will accomplish the requirements described in the TO using the approach outlined in Environmental Impact Analysis Process (EIAP), 32 CFR 989,15 Jul 1999, and amended 28 Mar 01. Major tasks and deliverables will include the following:

- Conduct site reconnaissance and prepare a letter-format report (CDRL A014)
- Develop the draft and final Description of Proposed Action and Alternatives (DOPAA) (CDRL A013A)
- Develop the draft EA, draft (final) EA for agency review, revised draft (final) EA for public review, revised draft (final) EA, and final EA (CDRL A013B)
- Prepare the draft and final FONSI (CDRL A013C) for Air Force signature, if applicable

6.0 PROJECT ORGANIZATION

Management of this project will be from the GMI Newport News office. Dr. Joseph Campo will be the Project Manager and will have primary responsibility for maintaining the project file of all correspondence and criteria pertinent to this project, project coordination, and overall project responsibilities. Mr. Ron Moore (GMI-Plano) will have responsibility for Quality Assurance and Quality Control. Ms. Charysse Menig Knotts (GMI-San Antonio) will act as Program Manager and ensure compliance with all AFCEE requirements. Ms Shawna Chapman (GMI-Plano) will be the contracts administrator for this TO. Information for key personnel is listed below.

Geo-Marine Program Manager Ms. Charysse Menig Knotts, P.E. 8301 Broadway, Suite 308 San Antonio, Texas 78209-2067 (210) 930-3007 (voice) (210) 930-3777 (fax) cknotts@geo-marine.com	AFCEE Contracting Officer's Representative Mr. Robert L. Lopez Task Order Manager/Contracting Officers Representative (COR) HQ AFCEE/ECE 3300 Sidney Brooks Brooks City-Base, Texas 78235-5112 (210) 536-6545 (voice) (210) 536-3890 (fax) robert.lopez@brooks.af.mil
Geo-Marine Project Manager Dr Joseph Campo 11846 Rock Landing Dr, Suite C Newport News, Virginia 23606 (757) 873-3702 (voice) (757) 873-3703 (fax) jcampo@geo-marine.com	Base POC Ms. Heidi Durako Project Manager 319 CES/CEVA 525 Tuskegee Airmen Blvd. Grand Forks AFB, North Dakota 58205 701-747-4774 (voice) 701- 747-6155 (fax) heidi.durako@grandforks.af.mil
Geo-Marine Quality Assurance Manager Mr. Ron Moore 550 East 15th St. Plano, Texas 75074-5708 (972) 423-5480 (voice) (972) 422-2736 (fax) rmoore@geo-marine.com	AFCEE Contracting Officer (CO) Ms. Sharon Vaca 311th HSW/PKVAB 3300 Sidney Brooks Brooks City-Base, Texas 78235-5112 (210) 536-5766 (voice) (210) 536-3890 (fax) sharon.vaca@brooks.af.mil
Geo-Marine Contracts Administrator Ms. Shawna Chapman 550 East 15th St. Plano, Texas 75074-5708 (972) 423-5480 (voice) (972) 422-2736 (fax) schapman@geo-marine.com	

7.0 PROJECT SCHEDULE

The Notice to Proceed (NTP) for this project was provided on 12 February 2003. GMI will prepare the following versions of the EA/FONSI in accordance with the schedule specified in the TO and CDRLs:

Kickoff Meeting	April 8
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Draft DOPAA	April 18
Final DOPAA	April 25
Draft EA	May 19
Draft Final EA/ Proposed FONSI	May 30 (Agency review)
Revised Draft Final EA/FONSI	July 1(Public review)
Revised Draft Final EA/FONSI	July 30
Final EA/FONSI	August 5

The following sequence of events would occur for completion of the project schedule. The project schedule is ambitious and requires good communication between GMI, AFCEE COR and the 319 CES/CEVA POC.

1. Notice to Proceed
2. Kickoff Meeting
   - identify resources to be evaluated
   - discuss alternatives eliminated from further consideration
   - discus and identify individuals that will review deliverables
   - discuss coordination of government comments and reviews
   - discuss specifics for each alternative
   - discuss regulatory requirements, relevant laws, required coordination
   - discuss reasonably foreseeable actions
   - discuss related NEPA documents
   - discuss summary of potential environmental consequences for each alternative
3. Site Reconnaissance Survey
   - describe proposed action site and alternate location
   - submit site survey report to AFCEE COR and 319 CES/CEVA
4. Document Review
   - predraft INRMP
   - final ICRMP
   - base environmental specifications
   - Sage EA
   - base compliance permits on hand
5. Prepare Draft DOPAA for AFCEE COR and 319 CES/CEVA review
6. Prepare Final DOPAA
7. Prepare scoping letters for AFCEE COR and 319 CES/CEVA review
8. Send scoping letters to agencies and organizations
9. Compile comments from scoping and review with AFCEE COR and 319 CES/CEVP
10. Analyze environmental consequences
    - air quality calculations
    - water resources assessment
    - noise environment
    - hazardous materials/wastes
    - other resources/issues to be evaluated
    - compile references
11. Prepare Draft EA and FONSI for AFCEE COR and 319 CES/CEVA review
12. Prepare Draft Final EA/proposed FONSI for agency review
13. Prepare Draft Final EA/FONSI for public review
14. Prepare Notice of Availability for FONSI for AFCEE COR and 319 CES/CEVA review
15. Publish NOA in local newspaper and place EA in local library
16. Prepare revised Draft Final EA/FONSI with final government comments
17. Prepare and Submit Final EA/FONSI to AFCEE COR and 319 CES/CEVA

email Joe 3/11/03

8:30 8 Apr 03
Conference Rm T.

Durako Heidi L Civ 319CES/CEVA

From: Joe Campo [jcampo@geo-marine.com]

Sent: Tuesday, March 11, 2003 7:43 AM

To: Durako Heidi L Civ 319CES/CEVA

Cc: Lopez Robert L Civ AFCEE/ECE; 'Sandy Brinson'; 'Bob Kull'

Subject: Information Request

Heidi: we would like to review the following information that may be related to the proposed action at our kickoff meeting and site visit scheduled for 7-11 April 2003.

1. ~~Maps of planimetric features, topography, and wetlands (obtain digital copies).~~ ~~Scott~~
2. Associated NEPA documents. ? similar const MILCON UST concurrent Projects
3. State or federal permits (i.e., stormwater, air quality, ERP, etc.). DAVE
4. ~~Cultural Resources data.~~ ? ICRMP
5. Site plan (demolition procedures, environmental controls, etc.). GARY DAVE
6. ~~Draft INRMP for preparing the affected environment section.~~ INRMP Send draft when received
7. List of people to interview (flight line operations, engineers, fire dept.). RAPCON FIRE STATION CTRL TOWER ? → Carl Wilkes Fire Chief 747-4170
   CERK SFS SAFETY
   Steve Zhoreda Chief Base Development 747-5642
   319 OSS/OSA Chief Airfield Mgmt Everett Gene Crouse 747-4360

Thanks for your help in gathering this information before our meeting. I will forward our work plan to you for review later this month. We are looking forward to meeting you and working together on the EA.

✓ ps: please let me know where we can lodge for the week that would be convenient to the base. Robert is expecting to stay on base. thanks.

Joseph J. Campo, Ph.D.
Senior Environmental Project Manager
Geo-Marine, Inc.
11846 Rock Landing Dr., Suite C
Newport News, VA 23606
757-873-3702
757-873-3703 (fax)
jcampo@geo-marine.com

Y drive projects CEV

DRAFT WORK PLAN

Environmental Assessment for
Construct Fire Station/Control Tower/RAPCON
Grand Forks AFB, North Dakota

Contract Number F41624-01-D-8556
Task Order 0048

Prepared for:
Department of the Air Force
Headquarters 311th Human Systems Wing
Air Force Materiel Command
and
Air Force Center for Environmental Excellence
Brooks City-Base, Texas

Prepared by:

GEO-MARINE INCORPORATED

Geo-Marine, Inc.
Newport News, Virginia

21 March 2003

1.0 INTRODUCTION

This work plan describes our technical and management approach for preparing an Environmental Assessment (EA) and, if applicable, a Finding of No Significant Impact (FONSI) addressing proposed construction of a fire station, control tower, and radar approach control facility (RAPCON) at Grand Forks Air Force Base (AFB), North Dakota. This work plan has been prepared in accordance with the Geo-Marine, Inc., (GMI) Quality Assurance Program. This project is administered by the Department of the Air Force, Headquarters 311th Human Systems Wing, Air Force Materiel Command at Brooks City-Base, Texas, and prepared to support the 319 CES/CEVA at Grand Forks AFB. It will be performed under the Environmental Minor Construction and Operations & Services (EMCOS) Contract at Air Force Center for Environmental Excellence (AFCEE), Number F41624-01-D-8556, Task Order (TO) 0048.

2.0 BACKGROUND

The fire station and air traffic control tower at Grand Forks AFB are severely undersized. The main fire station does not meet airfield response time requirements and the use of a satellite fire station would be inefficient. The air traffic control tower is one-third the size of most Air Force tower cabs and does not meet the current Air Force or Federal Aviation Administration standards. The existing RAPCON is outdated and inefficient because of its separation from the control tower. The EA shall provide environmental analyses for three alternatives: preferred alternative to construct a new fire station and control tower/RAPCON, an alternative location for siting, and the no action alternative. The EA shall provide sufficient evidence and analysis for determining whether the decision-maker at Grand Forks AFB should prepare an Environmental Impact Statement or prepare and sign a FONSI. GMI will prepare appropriate notification for public review and comments on the final document. A request for environmental impact analysis (AF Form 813) has been prepared by 319 CES/CD and reviewed by 319 CES/CEVA. The 319 CES/CD concluded that the proposed action is not regionally significant and does not qualify for a categorical exclusion.

3.0 ADMINISTRATIVE AND MANAGERIAL REQUIREMENTS

GMI will perform management and planning functions, performance measures, and cost status reporting as specified in the TO. Unless otherwise directed, GMI will submit hard copy and electronic deliverables to the AFCEE/ECE Contracting Officer Representative (COR) and the 319 CES/CEVA point-of-contact (POC).

4.0 MANAGEMENT, PLANNING, AND REPORTING REQUIREMENTS

GMI will prepare and submit all deliverables in accordance with the TO. GMI will coordinate with other government agencies, as directed by the AFCEE/ECE COR and/or the 319 CES/CEVA POC, regarding environmental issues required for completion of the project.

4.1 Meetings and Teleconferences

The activities under this TO include overall project management, participation in meetings, and task coordination. GMI has conducted a post award teleconference with Grand Forks AFB personnel, and HQ AFCEE/ECE to review the service requirements in the TO. In addition, one

post award kickoff meeting will be held at Grand Forks AFB to review this work plan (CDRL A008) and begin development of the EA. Meeting minutes (CDRL B001) and list of attendees will be prepared by GMI and submitted to the AFCEE COR and the 319 CES/CEVA POC within ten calendar days of the meeting. Progress meetings will be conducted by teleconference as needed and meeting minutes will be submitted as required.

4.2 Contractor's Progress, Status, and Management Report (CPSMR)

GMI will submit a CPSMR (CDRL B005) monthly to the CO, AFCEE COR, and 319 CES/CEVA POC for review and evaluation of the overall progress of the project and any existing or potential problem areas. The CPSMR will include the following:

- Status of current project activities and progress
- Results of previously identified issues
- Changes to project team or approach
- Identification of problem areas and proposed solutions
- Corrective actions taken
- Schedule status
- Current and cumulative cost
- Future plans

5.0 TECHNICAL APPROACH

GMI will accomplish the requirements described in the TO using the approach outlined in Environmental Impact Analysis Process (EIAP), 32 CFR 989,15 Jul 1999, and amended 28 Mar 01. Major tasks and deliverables will include the following:

- Conduct site reconnaissance and prepare a letter-format report (CDRL A014)
- Develop the draft and final Description of Proposed Action and Alternatives (DOPAA) (CDRL A013A)
- Develop the draft EA, draft (final) EA for agency review, revised draft (final) EA for public review, revised draft (final) EA, and final EA (CDRL A013B)
- Prepare the draft and final FONSI (CDRL A013C) for Air Force signature, if applicable

6.0 PROJECT ORGANIZATION

Management of this project will be from the GMI Newport News office. Dr. Joseph Campo will be the Project Manager and will have primary responsibility for maintaining the project file of all correspondence and criteria pertinent to this project, project coordination, and overall project responsibilities. Mr. Ron Moore (GMI-Plano) will have responsibility for Quality Assurance and Quality Control. Ms. Charysse Menig Knotts (GMI-San Antonio) will act as Program Manager and ensure compliance with all AFCEE requirements. Ms Shawna Chapman (GMI-Plano) will be the contracts administrator for this TO. Information for key personnel is listed below.

Geo-Marine Program Manager Ms. Charysse Menig Knotts, P.E. 8301 Broadway, Suite 308 San Antonio, Texas 78209-2067 (210) 930-3007 (voice) (210) 930-3777 (fax) cknotts@geo-marine.com	AFCEE Contracting Officer's Representative Mr. Robert L. Lopez Task Order Manager/Contracting Officers Representative (COR) HQ AFCEE/ECE 3300 Sidney Brooks Brooks City-Base, Texas 78235-5112 (210) 536-6545 (voice) (210) 536-3890 (fax) robert.lopez@brooks.af.mil
Geo-Marine Project Manager Dr Joseph Campo 11846 Rock Landing Dr, Suite C Newport News, Virginia 23606 (757) 873-3702 (voice) (757) 873-3703 (fax) jcampo@geo-marine.com	Base POC Ms. Heidi Durako Project Manager 319 CES/CEVA 525 Tuskegee Airmen Blvd. Grand Forks AFB, North Dakota 58205 701-747-4774 (voice) 701- 747-6155 (fax) heidi.durako@grandforks.af.mil
Geo-Marine Quality Assurance Manager Mr. Ron Moore 550 East 15th St. Plano, Texas 75074-5708 (972) 423-5480 (voice) (972) 422-2736 (fax) rmoore@geo-marine.com	AFCEE Contracting Officer (CO) Ms. Sharon Vaca 311th HSW/PKVAB 3300 Sidney Brooks Brooks City-Base, Texas 78235-5112 (210) 536-5766 (voice) (210) 536-3890 (fax) sharon.vaca@brooks.af.mil
Geo-Marine Contracts Administrator Ms. Shawna Chapman 550 East 15th St. Plano, Texas 75074-5708 (972) 423-5480 (voice) (972) 422-2736 (fax) schapman@geo-marine.com	

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Bob Kull
Sandy Brinster
Joe Campo

PA - Base maps digital
What can we give them
bldg #s

Post Award Teleconference Agenda - 26 February 2003, 10:00 am CST
Environmental Assessment to Construct a Fire Station, Control Tower, and Radar Approach Control Facility (RAPCON) at Grand Forks AFB, North Dakota.
Contract Number F41624-01-D-8556, Task Order 0048

1.0 REVIEW REQUIREMENTS IN THE SCOPE OF WORK.

1.1 Monthly Reports (CPSMR-CDRL B005).
1.2 Kickoff Meeting/Site Visit (Site Reconnaissance Report-CDRL A014) (Kickoff Meeting Minutes-CDRL B001).
1.3 Work Plan (CDRL A008). Submitted at kickoff. 3-5 pgs How will do work.
1.4 Prepare DOPAA (CDRL A013A). Develop at kickoff.
1.5 Draft and Final EA (CDRL A013B)
1.6 Draft and Final FONSI (CDRL A013C)

2.0 SITE RECONNAISSANCE SURVEY Call front gate. Robert Lopez Sandy

2.1 Base access requirements and camera use restrictions.
2.2 Personnel to interview, points of contact needed. Need list of people to contact eng., flightline ops, fire station

Joe will send list dig. pictures Check w/PA

3.0 GOVERNMENT FURNISHED MATERIAL

NPDES permit
Stormwater
INRMP
- go on form 813 info!

3.1 Proposed demolition procedures and description of work.
3.2 Environmental controls listed in contract specifications. no mitigation silt fences etc. copy of env. specs.
3.3 Project area maps, base map, digital files to use in EA.
3.4 Associated NEPA documents for reference in EA.
3.5 Existing conditions information for Chapter 3 (i.e., from INRMP).

Cumulative Impact-Related Projects Copies for Review

List of maps installation roads + bldgs

4.0 SCHEDULE

4.1 Interim deliverables submitted electronically for review.

4.2	Kickoff Meeting Tues W/Th Sites	April 8 Same week as EBS Weather dependent
4.3	Work Plan	April 8
4.4	Draft DOPAA	April 18
4.5	Final DOPAA	April 25
4.6	Draft EA	May 19
4.7	Draft Final EA/ Proposed FONSI	May 30 (Agency review)
4.8	Revised Draft Final EA/FONSI	July 1(Public review)
4.9	Revised Draft Final EA/FONSI	July 30
4.10	Final EA/FONSI	August 5

Identify Dist
Which agencies?
ND Hist Pres?
ND Dept Health
US Fish + Wildlife
ND Game Fish
GF County. Planning
GF Off. of Emerg. Mgmt

Single Point of Contact for State Clearinghouse
North Dakota Division of Community Services
Attn: Jim Boyd
14th Floor State Capitol Building
600 East Blvd
Bismarck ND 58502-0170

USFWS, Devils Lake Wetland Mgmt District
PO Box 908 Devils Lake ND 58301

ND Game + Fish, 100 N Bismarck Expressway
Bismarck ND 58501

ND Dept of Health, 600 E Boulevard Ave
Bismarck ND 58505

GF County Planning Dept 255 4St N
Grand Forks ND 58201

GF County Emergency Mgmt 122 5St S
Grand Forks ND 58201

April 8, 2003

Kickoff Meeting - Grand Forks EA Fire Station / ATC tower / RAPCON

NAME	ORGANIZATION	Phone / email
Steve Zhorela	319 CES/CECP	701-747-5642 steve.zhorela@grandforks.af.mil
SHARON E. BRENNAN	319 CES/CEKR	701-747-4803 SHARON.BRENNAN@GRANDFORKS.AF.MIL
Heidi Durako	319 CES/CEVA	701-747-4774 heidi.durako@grandforks.af.mil
Wayne Kapp	CES/CEV	701-747-4590 wayne.kapp@grandforks.af.mil
CAROL WILCES	Fire	CAROL.WILCES@GRANDFORKS.AF.MIL
RICHARD LIEN	319 CES/CEFT	RICHARD.LIEN@GRANDFORKS.AF.MIL
Brian Robbins	319 OSS/OSA	samuel.robbins@grandforks.af.mil
Glen Smith	319 OSS/OSA	Glen.Smith@Grandforks.af.mil
Sandra Brinson	Geo-Marine, Inc.	sbrinson@geo-marine.com
Joseph Campo	Geo-Marine Inc.	757-873-3702

File 9B CEVA
RCS #03-012

FAX

Geo-Marine, Inc.
11846 Rock Landing Dr.
Suite C
Newport News, VA 23606
phone: 757.873.3702 or 8253
fax: 757.873.3703
www.geo-marine.com

Date: 8/1/2003

# of pages including cover: 2

To: Robert Lopez, AFCEE
Title: Heidi Durako, GFAFB

From: Joe Campo
Title:

Company:

Service Area:

Phone/extension:

Extension:

Subject:

☐ *Urgent* ☐ *For Review* ☐ *Please Comment* ☐ *Please Reply* ☐ *Please Recycle*

Robert, Heidi: A copy of the public notice of availability for the Fire Station/ATC Tower/RAPCON environmental assessment is attached for your files.

BIRD AIRCRAFT STRIKE HAZARD

CULTURAL RESOURCES MANAGEMENT

ENERGY MANAGEMENT

VIRONMENTAL ..YSIS & PLANNING

ENVIRONMENTAL COMPLIANCE & ASSESSMENT

ENVIRONMENTAL REMEDIATION

GEOGRAPHIC INFORMATION SYSTEMS

MARINE SCIENCES

..ATURAL RESOURCES MANAGEMENT

FILE 9B CEVA
RCS # 08-012 LIED

Comments on Draft Environmental Assessment for Construct Fire Station/Air Traffic Control Tower/RAPCON

Heidi Durako, 319 CES/CEVA, Natural and Cultural Resources Manager, EIAP Manager

1. Pg 1-2: Include outline of base like the outline of the City of Grand Forks
2. Throughout document: change Kelly's Slough to Kellys Slough
3. Pg 3-9, Section 3.6.3, and Pg 4-6, lines 5-8: GFAFB sent a letter to Native American Groups in April requesting information on their traditional sites located on GFAFB property by 15 May. No responses were received.
4. Pg 3-13, line 22: the first primary intersection to base housing along Steen has now been removed (as of last week)
5. Per HQ AMC/CEV, new EA format must include an Executive Summary between the Acronyms, Abbreviations, and Terms and Chapter 1.0, Purpose of and Need for the Proposed Action
6. Per HQ AMC/CEV, new EA format must include Objectives for the Action
7. Per HQ AMC/CEV, new EA format must include Stored Fuels in the Wastes, Hazardous Materials, and Stored Fuels section
8. Per HQ AMC/CEV, new EA format must include Land Use, Airspace/Airfield Operations, and Pollution Prevention and Geology and Soils under Environmental Management under 3.0 Affected Environment
9. Per HQ AMC/CEV, new EA format must include a copy of the DD Form 1391 in the Appendix

Wayne Koop, 319 CES/CEV, Environmental Management Flight Chief

1. Cover and next page: Change Brooks City-Base, Texas to Brooks AFB, TX (Per Durako, please check with Robert Lopez as I believe that it is now Brooks City-Base)
2. Pg iii: change on duty to on-duty under background
3. Pg v: The signature block for the chairman of the Environmental Protection Committee is

   STEVEN E. WAYNE, Colonel, USAF
4. Pg 1-4, line 2: Change on duty to on-duty
5. Pg 1-6, line 10: change base civil engineer to Base Civil Engineer and chairman to Chairman
6. Pg 1-7, line 4: change chairman to Chairman
7. Between pg 2-1 and 2-2, there is an extra page, please delete
8. Pg 2-10, environmental programs, line 2: change on duty to on-duty
9. Pg 3-3, line 13: verify if the Red River is 25 or 16 miles from the base
10. Pg 3-10, section 3.8.1: verify the housing units
11. Pg 3-16, section 3.11.5: the old sanitary landfill is currently under long-term monitoring. Please include a list of IRP sites under LTM and include. This can be obtained from Mr. Larry Olderbak, 319 CES/CEVR (Per Durako, See Mr. Olderbak's comment below)

Gary Raknerud, 319 CES/CEVP, Pollution Prevention Chief

No Comments

1Lt Glen Smith, 319 OSS/OSA
No Comments

Steve Zhorela, 319 CES/CECP
1. Verify with Safety about a possible change to the Q/D with the Fire Station siting.

1Lt Samuel Robbins, 319 OSS/OSA
Read, No Comments Provided

Carl Wilkes, 319 CES/CEF
1. Sounds great

Mark Hanson, 319 ARW/JA
No Comments

Heidi Nelson, 319 CES/CECP
1. I talked to MSgt Thomas about the proposed QD and he is going to change it back to the existing. He said he changed the QD so that we could use the pad for a certain type of explosive, although that explosive type is rarely used - He said that they would use a different area where it would work better.

MSgt Richard Lien, 319 CES/CEF

Maj John Moes, 319 SFS/CC
Read, No Comments Received

Judy Stensland, 319 CES/CERR
No Comments

Gary Johnson, 319 ARW/SE
1. The parking lot for the Fire Station is located in the clear zone and must be moved or made smaller.

Maj Stephanie Brown, 319 ADS/SSGB

David McCullough, 319 CES/CEVC

Larry Olderbak, 319 CES/CEVR
1. Pg 3-16, section 3.11.5: There are five sites that are in long-term monitoring/long-term operation (LTM/LTO). They are FT-02 (Fire Training Area/Old Sanitary Landfill Area), LF-03 (New Sanitary Landfill Area), ST-07 (Petroleum, Oil, and Lubricant Off-Loading Area), ST-04 (Building 306), and ST-08 (Refueling Ramps and Pads).

File 9B CEV17
KCS # 03-012

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR FORCE FLIGHT STANDARDS AGENCY (AFFSA)
ANDREWS AIR FORCE BASE, MARYLAND

23 May 2002

MEMORANDUM FOR 319th ARW/CC

FROM: HQ AFFSA/XRE
1535 COMMAND DRIVE, SUITE D-309
ANDREWS AFB, MD 20762-7002

SUBJECT: Statement of Intent (SOI) for proposed construction of a new Control Tower and RAPCON at Grand Forks AFB, ND.

1. This is a Statement of Intent (SOI) between HQ AFFSA/XR, HQ AMC/DOA, and 319th ARW as it pertains to the 22-23 May 2002 Site Survey for the proposed new Air Traffic Control Tower (ATCT) at Grand Forks AFB, ND.

2. The purpose of this SOI is to reserve the area required for this project, to note the major allied support requirements needed for later installation of the project equipment, and to serve as a source document for the 10% Preliminary Design (PD). Concurrence to this document by the Wing Commander signifies acceptance of the site recommendations. Non-concurrence to the siting recommendations identified herein, requires a written response from the Wing on the site selection of their choice.

3. Current Situation: The existing ATCT facility (Bldg 634) was designed and built in 1974 to accommodate only ATC operations and with limited equipment space. Current Operations tempo has significantly expanded the required number of personnel working in the tower cab and recent equipment additions, and upgrades render the cab space unsuitable for day-to-day operations. Planned and funded equipment acquisitions will be held-in-abeyance because of the unavailability of space in the current facility. The height of the tower cab floor is approximately 100 feet above ground level (AGL) and does provide sufficient visual surveillance and depth perception of the aerodrome with the exception of an area to the north, between Bldg 670 and Bldg 649, and an area to the south near Bldg 522. The structural, mechanical, and electrical components of the tower facility have deteriorated to the point that repairs are often required. In addition, there is insufficient space to carry out the administration, training, and management functions associated within the tower operations area. The tower consists of ten floors and a tower cab. Presently, the first floor houses the Uninterruptible Power System (UPS). A back-up generator for both the control tower and RAPCON is adjacent to the tower. The second floor houses the heating system for the tower. The third floor houses the Training and Break Room. The fourth floor houses the Tower Chief's Office. The fifth and sixth floor are unoccupied. The seventh floor is currently used as a storage room. The eighth floor will house the proposed ETVS system, to be installed within the next thirty days. The ninth floor houses the HVAC system. The tenth floor houses the OJ-314, Digital Voice Recorder System (DVRS) and the remainder of the backup radios. The tower cab is supported on a steel reinforced open member structure covered by insulated sheet metal on the exterior of the tower shaft. The tower also has a conventional steel staircase running from the 1st to the 10th floor, and a "ship's ladder" from the 10th to tower cab floor. The tower is also equipped with a small elevator serving the first to eighth floor. The building is substandard and is not adequate to allow renovation to incorporate all ATCT operations functions. Additional synergy, coordination, and span of control can be achieved by incorporating the RAPCON functions with the control tower. The current 1970's vintage building for the RAPCON is sub-standard, and requires constant maintenance making it a prime candidate for replacement and new construction. Cost savings can be achieved by combining the mechanical yards, back-up generators and building infrastructure for both facilities. It is neither cost effective nor practical to renovate the existing ATCT or RAPCON in order to comply with the current Life and Fire Safety standards and seismic requirements.

4. The major disadvantage in selecting the existing control tower site is the requirement for utilizing a mobile tower as an interim facility. The cost to deploy a mobile tower, if the existing facility site was chosen, would be borne by the user and would inflate the overall project cost and disrupt normal operations. The use of a mobile tower asset might significantly impact wing flying operations due to limited space, equipment, and airfield visibility.

5. This survey considers 3 each possible Control Tower locations utilizing DoD Unified Facilities Criteria (UFC) document 3-260-01, Airfield and Heliport Planning and Design, Attachment 18: (See drawing attached for site locations)

a. Site No. 1: The general area 350 feet northeast of the existing Control Tower, due west of Bldg 629, 5100 feet north of the Runway 35 Threshold and 2575 feet east of the centerline Runway 17/35, due west of Bldg 629.

b. Site No. 2: The general area of the existing Control Tower, Bldg 634.

c. Site No. 3: The general area 300 feet southeast of the existing Control Tower Facility located, 4700 feet north of the Runway 35 threshold, 2700 feet east of Runway 17/35 centerline.

d. Site No. 4: The general area on the west side of the airfield and one thousand feet north of the existing TACAN facility.

6. Sites No. 2 and 4 were rejected for the following reasons:

a. The existing tower location does not meet current Air Force siting requirements, nor is it adequate for current needs or future expansion. The disadvantage in selecting the existing control tower site is the requirement for utilizing a mobile tower as an interim facility while the new tower is being constructed. A Tower Restoral Vehicle (TRV) would be required if the existing facility site was chosen. The use of a mobile tower asset might impact wing flying operations due to limited space, equipment, and airfield visibility. Upon completion of the new tower construction and cut-over, it is recommended that the existing tower be dismantled.

b. Though the location would provide good visibility of all airfield surfaces, siting the control tower at Site 4 might be very expensive due to insufficient telephone/communications utilities in this area. The additional installation costs would add to the overall cost of the project. Though plenty of real estate is available in the general area, the Base Civil Engineer would have to develop a detailed cost estimate to bring telephone and utilities into this area of the base. Operationally, siting the control tower in this location would place the aircraft traffic pattern behind the controller, in a non-standard configuration, causing a potential safety of flight issue. Shifting the pattern to allow the observation of the flight pattern in front of the controllers would place the aircraft flight path over the air base proper.

7. Considering the results of this survey, it is recommended that Site No. 1 be selected for the new control tower. Site 1 provides the greatest visibility for all ATC operations. Under current conditions, in order to meet siting criteria requirements, the best visibility to the airfield surface can generally be found by finding an acceptable site on the east side of Runway 17/35 in close proximity to midfield. To meet visibility requirements, the tower cab floor height requirement at Site 1 should be approximately 115 feet above ground level (AGL). This equates to an 11-story tower structure and a tower cab. The following supports this recommendation: Primary rationale to site the tower at Site 1 was the availability and the ability to meet operational requirements. This siting satisfies all the requests of the user, taking into consideration availability to power, utility and communications cable, water and access to other base facilities in and around the proposed sites. A waiver to the proposed site will not be required since the tower does not penetrate the 7 to 1 transition slope. Site 3 (300 feet southeast of the existing Control Tower) also provides excellent visibility to all airfield surfaces, ramps and movement areas and meets all airfield construction criteria and siting considerations. Site 1 is preferred over Site 3.

8. The control tower will be designed using the Air Force ATCT Design Guide, as a baseline document. The height to the control tower cab floor will be 109.5 feet AGL (115 feet eye level and overall height with antennas is approximately 145 feet above ground level). This height is necessary to provide adequate visibility for taxiways/runways, provide the minimum angle of 35 minutes for depth perception to the farthest aircraft traffic surface on the airdrome, limit screening due to the large hangars, and provide necessary equipment, training, briefing and administrative space. The tower shall consist of approximately eleven floors and the control tower cab. The floor designation is as follows:

First Floor: Mechanical Yard and Mechanical pumps and Telephone Closet and Simulator Room with shed roof.

Second Floor:	LAN/Telephone Frame Room
Third Floor:	Chief Controller's Room
Fourth Floor:	Admin Room
Fifth Floor:	Admin Room
Sixth Floor:	Admin Room
Seventh Floor:	Lower Equipment Room
Eighth Floor	Upper Equipment Room
Ninth Floor	Briefing/Training Room
Tenth Floor:	Ready (Break) Room with personal equipment lockers
Eleventh Floor:	Mechanical Room
Top Floor:	Control Tower Cab

9. Allied Support Requirements:

a. Utilities: Electrical power shall be 120/208, 60 Hz, plus or minus 10 percent, three-phase, four wire. A 75-80 KVA back-up generator with auto change-over is required. A larger generator is not recommended because it will not be loaded sufficiently to ensure stable power during load operations. An equipotential grounding system shall be installed in the control tower cab, and the two equipment rooms in accordance with Mil Std 188-124B.

b. Environmental Requirements: Environmental controls are required in the control cab and two electronic equipment rooms in order to sustain effective and continuous electronic equipment operation. The operational limits and the amount of heat dissipated by the equipment are as follows:

Room	Heat Dissipated
Tower Cab	29,200 BTU
Upper Equipment Room	22,800 BTU
Lower Equipment Room	24,400 BTU
First Floor Simulator Room w/shed roof	25,000 BTU

c. Airfield Lighting Control Panel: An airfield lighting control panel, connected to the airfield lighting vault, will be required for this new structure. The panel provided should be in accordance with FAA Advisory Circular No. 150/5345-3D, Specifications for L821 panels for remote control of airport lighting, 8 Aug 86. It is suggested that the new fiber optic, computer controlled, Airfield Lighting Panel be incorporated in to this facility.

d. Communications: All existing communication lines/circuitry for NAVAIDS monitors and radio transmitters/receivers terminating in the existing tower shall be provided to the new complex.

e. Underground Duct: The existing base duct system must be identified in the area of the proposed control tower site for the field lighting cables, primary power cables, control cables, telephone cables, and meteorological cables. Existing cables within the construction zone would need to be field verified and relocated subsequent to ground breaking for this complex.

10. After the control tower project has become a firm project, programming action should be initiated by the base Communications Squadron to relocate the electronics equipment from the old control tower. The Communications Squadron must take steps to inform the Systems Telecommunications Engineering Manager (STEM) and Engineering and Installation (E&I) project engineer of the relocation requirements and submit the necessary AF Form 3215's.

11. Point of contacts concerning the survey are Mr. Peter W. Charney, HQ AFFSA/XRE, DSN 857-3986 or Mr. John F. Tigue, HQ AMC/DOA, DSN 779-3325.

12. The purpose of this document is to only identify the advantages and disadvantages of the proposed control tower siting based on the survey findings. The intent is to provide an overview of all siting

considerations. The following personnel have coordinated and been briefed on this Statement of Intent:

Marshall K. Sabol, Col, USAF
Commander, 319th Air Refueling Wing

Barbara E. Chine, Col, USAF
Commander, 319th Support Group

Jeffrey P. Kaloostian, Col, USAF
Commander, 319th Operations Group

Stuart J. Shaw, Lt Col, USAF
Commander, 319th Operations Support Sq

Douglas G. Tarbett, Lt Col, USAF
Commander, 319th Civil Engineering Sq

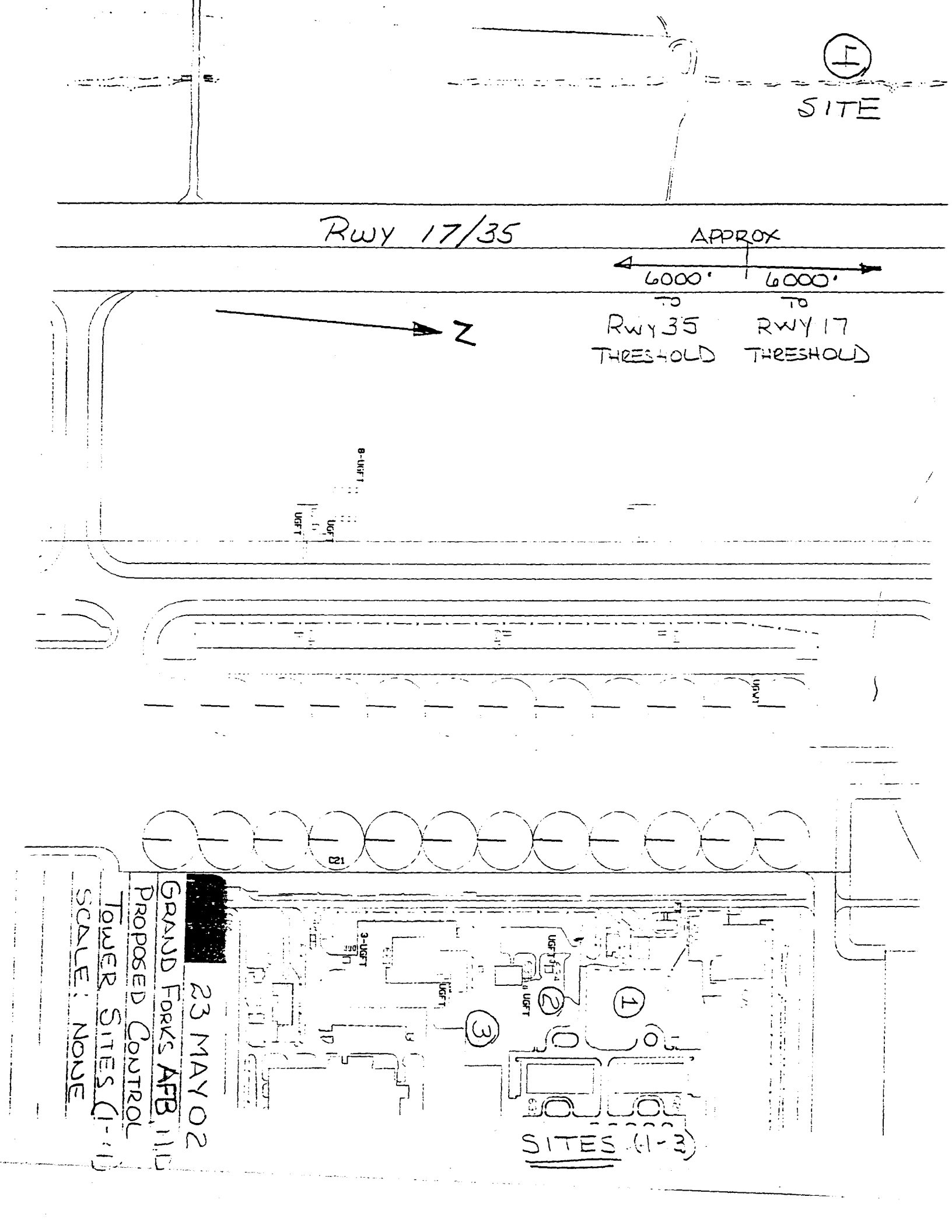
Laurie J. Lisec, Maj, USAF
Commander, 319th Communications Sq

John F. Tigue, DAFC
ATC Sys & Resources Mgr
HQ AMC/DOA

Peter W. Charney, DAFC
ATCALS Engineering, Tower Design
HQ AFFSA/XRE

1 Attachment:
1. Site Sketch (Sites 1 thru 4)

cc:
319th ARW/CC
AFFSA/XRE
HQ AMC/DOA
HQ AMC/CEC
319th CES/CC
319th SPTG/CC
319th OG/CC
319th CS/CC
319th OSS/CC


1
SITE
RWY 17/35
APPROX
6000'
TO
RWY 35
THRESHOLD
6000'
TO
RWY 17
THRESHOLD
N
8-UGFT
UGFT
UGFT
UGFT
3-UGFT
UGFT
UGFT
UGFT
1
2
3
SITES (1-3)
23 MAY 02
GRAND FORKS AFB, ND
PROPOSED CONTROL TOWER SITES (1-3)
SCALE: NONE

DEPARTMENT OF THE AIR FORCE
319TH SUPPORT GROUP (AMC)
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

1 Jul 02

MEMORANDUM FOR 319 OSS/OSA

FROM: 319 CES/CC

SUBJECT: Proposed Site for a New Control Tower

1. We do not concur with the signing of this document at this time. There are two main issues that must be worked before the Facility Working Group can take a recommendation to the Facility Board. First, the Environmental Impact Analysis Process requires all alternatives to be studied before a siting decision can be made. Our Environmental Engineering Flight can help you with this requirement. The second is the proper use of the system in place to work facility issues. Each action must start with an Air Force Form 332 requesting the requirement. This triggers numerous other actions that must be observed to maintain an orderly long-range facility plan.

2. This project will have to compete with all MILCON projects in Grand Forks Air Force Base's long-range plan. One alternative not mentioned that should be considered is to combine the new control tower project with the requirement for a new fire station. The future fire station is also optimally sited central to the runway. Because the fire station is in the future program for MILCON already, this would seem to be a way to help both projects sell better to Air Force and Congress. Please feel free to contact Mr. Steve Zhorela at 7-5642 for any assistance in the preparation of a facility request.

Douglas G. Tarbett

DOUGLAS G. TARBETT, Lt Col, USAF
Base Civil Engineer

File 9B CEVA
RCS #03-012

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	FIRE STATION/CONTROL TOWER/RAPCON

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	730-142	JFSD990072	14,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
FIRE STATION/CONTROL TOWER/RAPCON	LS			8,830
FIRE STATION	SM	2,820	1,434	(4,043)
CONTROL TOWER	SM	800	3,428	(2,742)
RAPCON	SM	575	2,223	(1,278)
AT/FP PHYSICAL SECURITY MEASURES	SM	4,195	183	(767)
SUPPORTING FACILITIES				4,480
COMMUNICATIONS	LS			(344)
FIRE STATION PAVEMENTS/ROAD	LS			(745)
FIRE STATION UTILITIES/SITE IMPROVE	LS			(804)
RAPCON PAVEMENT/UTILITIES/SITE IMP	LS			(439)
CONTROL TOWER/PAVEMENT/UTILITIES	LS			(942)
SPECIAL SITE CONDITIONS	LS			(1,206)
SUBTOTAL				13,310
CONTINGENCY (5.0 %)				666
TOTAL CONTRACT COST				13,976
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				797
TOTAL REQUEST				14,772
TOTAL REQUEST (ROUNDED)				14,800
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,000.0)

10. Description of Proposed Construction: Construct consolidated crash/structural fire station to house fire protection vehicles, equipment, personnel, alarm center, all support areas. Construct collocated control tower/RAPCON. Include sloped standing seam metal roofs, underground utilities & communications infrastructure, pavements, access roads, site improvements, AT/FP physical security. Demolish old fire station (530) & tower (634).

11. REQUIREMENT: 4,195 SM ADEQUATE: 0 SM SUBSTANDARD: 3,013 SM

PROJECT: Construct Fire Station/Control Tower/RAPCON (Current Mission).

REQUIREMENT: Modern, efficient fire station required to house all authorized airfield and base fire fighting vehicles, drive-through stalls, personnel, alarm center, training, administration, storage, fire hose tower. Location will be on the flightline and centrally located to meet airfield response times. Sleeping areas will not discharge directly into vehicle stalls, adequate shower and lavatory facilities required for male and female firefighters, and suitable living space for cooking, dining, relaxing, and physical fitness. Properly sized air traffic control tower required to meet Air Force and Federal Aviation Administration standards for safety, effectiveness, efficiency, and uncompromised control of flying traffic. New radar approach control facility with upgraded equipment, expanded training area, and traffic controller simulator is required to improve flight safety, training, and retention and morale of controllers. RAPCON will be collocated with tower to improve operational and facility efficiencies.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	FIRE STATION/CONTROL TOWER/RAPCON

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	730-142	JFSD990072	14,800

CURRENT SITUATION: The 1957-vintage main crash/fire rescue facility is severely undersized, has an unsafe, inefficient maze layout, inadequate vehicles-stall clearances, and does not meet current codes for life safety and standards of living. Building systems including HVAC are obsolete, difficult to maintain, and inefficient. Station lacks adequate maintenance space; hoses must be laid out in office areas for drying in the winter. The main station does not meet airfield response time requirements. Although a satellite station fills the gap in response timing, it is small and cramped, and the inefficiency of separated operations defeats its purpose of effective fire protection for the base. The 30-year-old air traffic control tower is severely undersized, a third the size of most Air Force tower cabs, does not meet current Air Force or Federal Aviation Administration standards, and is the oldest standing tower in Air Mobility Command. Much-needed upgrades to air traffic control systems cannot be incorporated into the antiquated tower cab. Current operations tempo requirement for additional controllers and recent equipment additions have rendered the cab space unsuitable for day-to-day operations. Furthermore, the present tower has "high maintenance", "difficult to maintain", and "outdated" mechanical and electrical components and equipment that routinely break down and directly impact quality of air traffic control service, as well as controller workload. The tower cab windows, despite attempted repairs, continually leak during heavy rainstorms. The existing radar approach control facility is outdated and inefficient because of its separation from the control tower. Supervisory personnel and controllers have to move between buildings, including exposure to the extreme winter conditions, to perform routine daily duties and upgrade training.

IMPACT IF NOT PROVIDED: Adequate fire protection for Air Force aircraft and facilities will not be provided. Firefighter response will continue to be hindered by an improperly located, unsafe, inefficient fire station. Obsolete, cramped facilities will continue to adversely impact morale and retention of military and civilian firefighters. The substandard air traffic control tower will continue to deteriorate further below AF and FAA standards, causing major safety concerns for both aircrews and air traffic controllers at Grand Forks AFB. Air traffic control personnel will face increased challenges trying to keep their systems operational, and facility inefficiencies will continue to adversely impact job performance, training, and morale.

ADDITIONAL: This project does meet the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements". An economic analysis has been prepared comparing alternatives of status quo, new construction, and adding to and altering the existing facilities. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost effective over the life of the project. Cost estimate was developed using PACES. BASE CIVIL ENGINEER: Lt Col Douglas G. Tarbett, (701) 747-4769.

JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	FIRE STATION/CONTROL TOWER/RAPCON

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	730-142	JFSD990072	14,800

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started

(b) Parametric Cost Estimates used to develop costs

(c) Percent Complete as of 01 JAN 2004

(d) Date 35% Designed

(e) Date Design Complete

(f) Energy Study/Life-Cycle analysis was/will be performed NO

(2) Basis:

(a) Standard or Definitive Design - NO

(b) Where Design Was Most Recently Used -

(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	0
(b) All Other Design Costs	0
(c) Total	0
(d) Contract	0
(e) In-house	0

(4) Construction Contract Award

(5) Construction Start

(6) Construction Completion

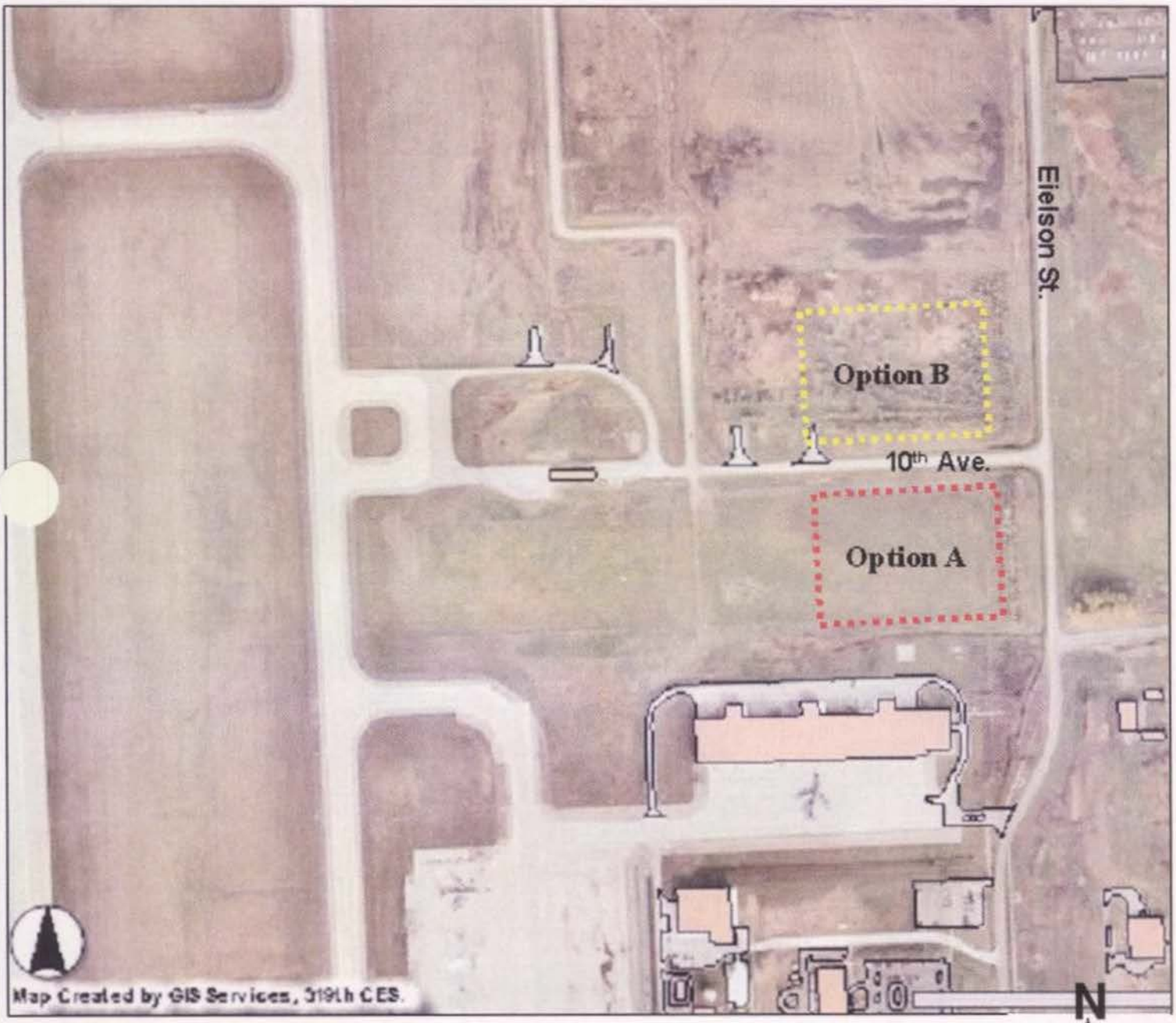
b. Equipment associated with this project provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMPREHENSIVE INTERIOR DESIGN	3400	2006	500
COMMUNICATIONS-ELECTRONIC EQMT	3400	2006	500

1. COMPONENT	FY 2006 MILITARY CONSTRUCTION DATA	2. DATE
AF (AMC)		29 Oct 02

3. INSTALLATION AND LOCATION
ND FORKS AFB, NORTH DAKOTA

4. PROJECT TITLE	5. PROJECT NUMBER
Fire Station	JFSD990072



Location Plan

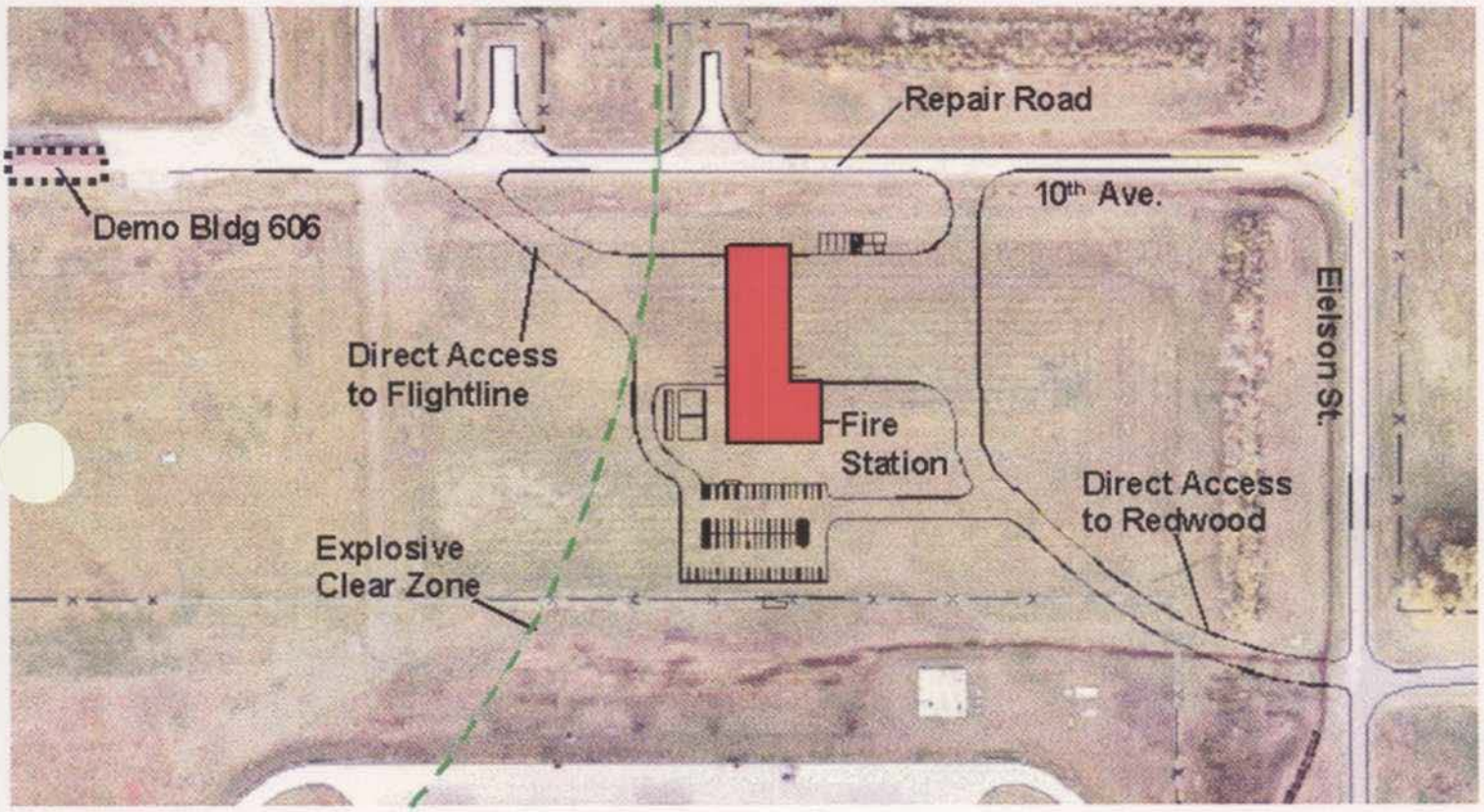
DD FORM 1391c

COMPUTER GENERATED FORM

1. COMPONENT	FY 2006 MILITARY CONSTRUCTION DATA	2. DATE
AF (AMC)		29 Oct 02

LATION AND LOCATION
ND FORKS AFB, NORTH DAKOTA

4. PROJECT TITLE	5. PROJECT NUMBER
Fire Station (Option A)	JFSD990072



Site Plan

N

ILITY BOARD APPROVAL

DATE

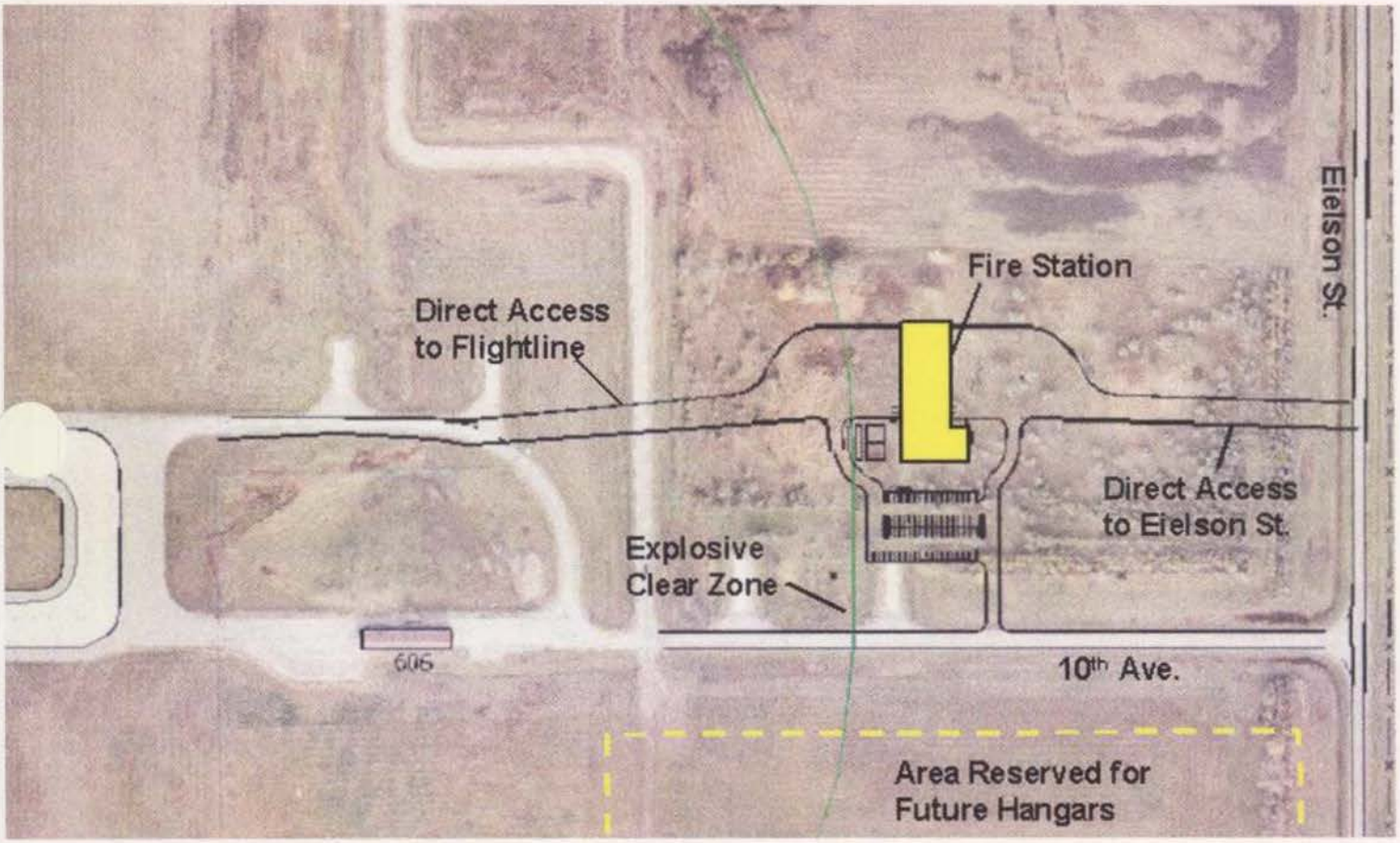
DD FORM 1391c

COMPUTER GENERATED FORM

1. COMPONENT	FY 2006 MILITARY CONSTRUCTION DATA	2. DATE
AF (AMC)		29 Oct 02

3. INSTALLATION AND LOCATION
GRAND FORKS AFB, NORTH DAKOTA

4. PROJECT TITLE	5. PROJECT NUMBER
Fire Station (Option B)	JFSD990072



Site Plan

N

FACILITY BOARD APPROVAL

DATE

1. COMPONENT	FY 20__ MILITARY CONSTRUCTION DATA	2. DATE
AF (AMC)		25 AUG 02

3. INSTALLATION AND LOCATION
GRAND FORKS AFB, NORTH DAKOTA

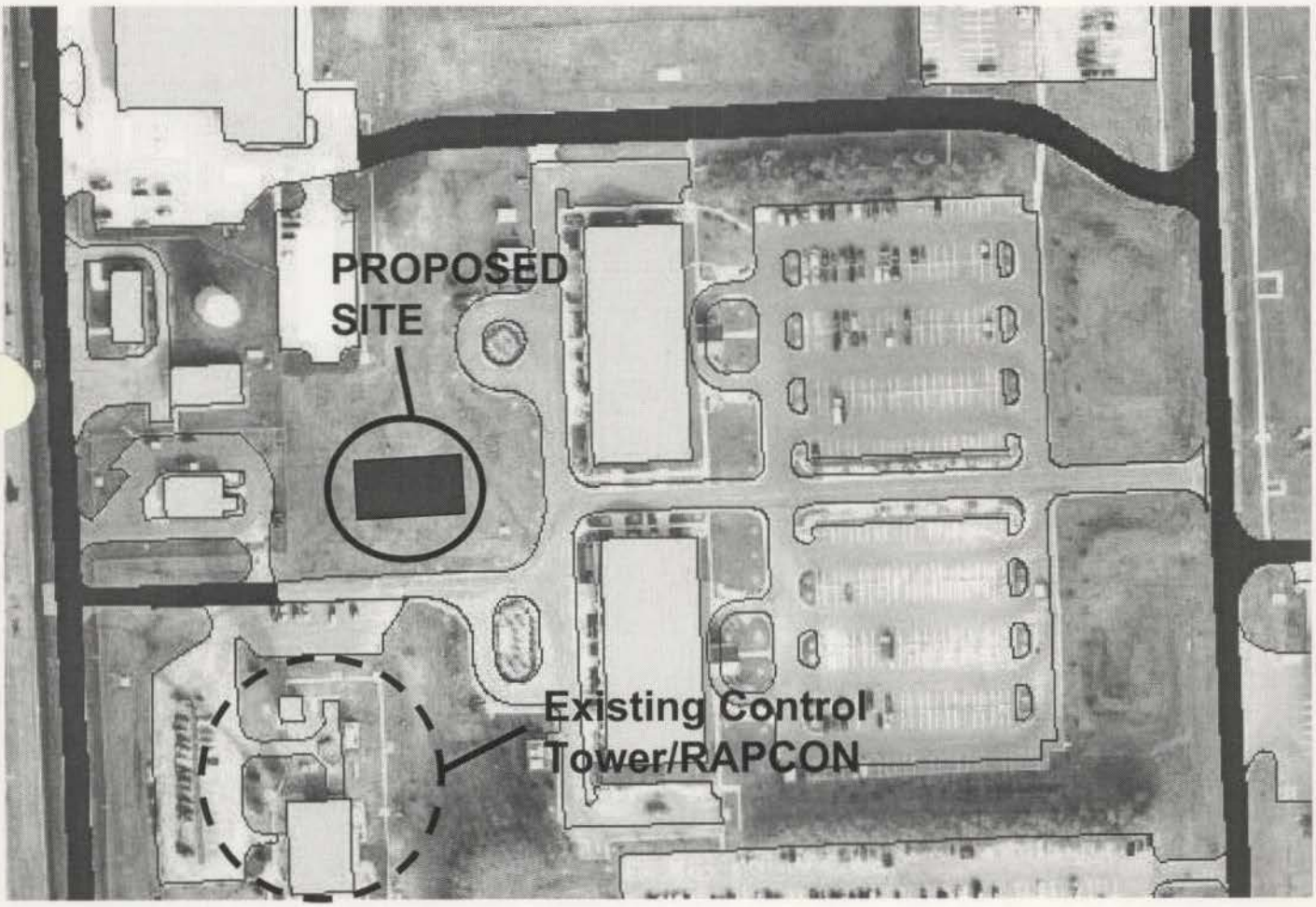
4. PROJECT TITLE	5. PROJECT NUMBER
Control Tower/RAPCON	JFSD 200264

Location Plan

1. COMPONENT	FY 20__ MILITARY CONSTRUCTION DATA	2. DATE
AF (AMC)		25 AUG 02

3. INSTALLATION AND LOCATION
GRAND FORKS AFB, NORTH DAKOTA

4. PROJECT TITLE	5. PROJECT NUMBER
Control Tower/RAPCON	JFSD 200264



Site Plan

FACILITY BOARD APPROVAL _____ DATE _____

File 9B CEVA (ND)
RCS# 03-012

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October 9, 2003

Wayne A. Koop
Dept. of the Air Force
319 CES/CEV
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

"Letter of Clearance" In Conformance with the North Dakota Federal Program Review System - State Application Identifier No.: ND031009-0488

Dear Mr. Koop:

SUBJECT: FONSI - Construction of Fire Station, Air Traffic Control Tower, and Radar Approach Control Facility at Grand Forks AFB

The above referenced FONSI has been reviewed through the North Dakota Federal Program Review Process. As a result of the review, clearance is given to the project only with respect to this consultation process.

If the proposed project changes in duration, scope, description, budget, location or area of impact, from the project description submitted for review, then it is necessary to submit a copy of the completed application to this office for further review.

We also request the opportunity for complete review of applications for renewal or continuation grants or applications not submitted to or acted on by the funding agency within one year after the date of this letter.

Please use the above SAI number for reference to the above project with this office. Your continued cooperation in the review process is much appreciated.

Sincerely,

James R. Boyd

James R. Boyd
Manager of Governmental Services

sf

File 9B CEVA
LCS # 03-019

SUBJECT: Fire Station/Control Tower/Rapcon MILCON

Siting Issues: Siting of Control Tower does not need to be adjacent to or connected to Fire Station. MacDill construction was on opposite sides of runway. User prefers siting Control Tower at #1 site recommended by AFFSA. Space is available at site for a consolidated Rapcon. User concurs with AFFSA because:

a. Enhanced security over-watch of Airfield Operations/Facilities/3-Bay
b. Closer to the C-Ramp…better observation/control
c. Close to exist Rapcon if MILCON doesn't fund consolidated new Rapcon
d. Insignificant distance from runway center line vs. site north of 3-bay

4795 2M

Programming Estimates:

FY06-Control Tower:	12 stories (includes cab)	8,614 SF	PA: $5.1M	8095 5795 2020
FY06-Rapcon:	Single Story	6,187 SF	PA: $1.9M	
FY06-Fire Station	AMC Concept	30,343 SF	PA: ~~$7.2M~~	
Total MILCON			$14.2M → USE $14.8M	
Equipment (other Appr)			$ 1.0M	

Additional site costs…

Constructing/Consolidating Rapcon with Control Tower: Provides economy by shared use of emergency power systems, HVAC systems, Comm systems, briefing rooms, training, security, and utilities. Significantly enhances OG operations/efficiency/security. Eliminates wasted time for personnel driving/walking daily between separate facilities. Provides personnel protection from harsh winter environment. Existing Rapcon facility is structurally sound and could be used for other mission requirements.

AFFSA has stipulated that a Control Tower can't be attached to existing Rapcon, because Rapcon operations would need to be shut-down during majority of construction. However, a Rapcon can be attached to an existing Control Tower and not require the Control Tower operations to shut down.

Recommendations: Program consolidated Fire Station/Control Tower/Rapcon, PA: $14.2M, Fire Station sited north of 3-Bay and Control Tower/Rapcon sited at #1 AFFSA recommended location. PA not excessive for selling to Air Force/Congress. Provides option that if PA is slashed (often happens during inserts), Rapcon could be removed from project and accomplished in out-year. New Control Tower siting is still relatively close to existing Rapcon, which would not seriously degrade OG operation until new Rapcon is built.

ACTION OFFICE: 319CES/CECP/Steve Zhorela/31Oct02

DD Form 1391 Cost Worksheet

1. Air Force	FY 2006 Military Construction Project Data	2. Date 10/31/2002
3. Installation and Location GRAND FORKS AFB, NORTH DAKOTA	4. Project Title Control Tower2	

5. Program Element	6. Category code	7. Project Number	8. Project Cost
	149-962		5,100

9. Cost Estimates

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facilities				3,091
Control Tower	SF	8,614	322.42	(2,777)
Antiterrorism/Force Protection	LS	--	--	(314)
Supporting Facilities				1,491
Utilities	LS	--	--	(437)
Site Improvements	LS	--	--	(194)
Pavements	LS	--	--	(340)
Special Site Conditions	LS	--	--	(519)
Subtotal				4,582
Contingency (5.00%)				229
Total Contract Cost				4,811
Supervision, Inspection & Overhead (5.70%)				274
Total Request				5,086
Total Request (Rounded)				5,100

DD Form 1391 Cost Worksheet

1. Air Force	FY 2006 Military Construction Project Data	2. Date 10/31/2002
3. Installation and Location GRAND FORKS AFB, NORTH DAKOTA	4. Project Title RAPCON	

5. Program Element	6. Category code	7. Project Number	8. Project Cost
	134-394		1,900

9. Cost Estimates

Item	U/M	Quantity	Unit Cost	Cost ($000)
Primary Facilities				1,417
RAPCON	SF	6,187	205.75	(1,273)
Antiterrorism/Force Protection	LS	--	--	(144)
Supporting Facilities				300
Utilities	LS	--	--	(74)
Site Improvements	LS	--	--	(47)
Pavements	LS	--	--	(180)
Subtotal				1,717
Contingency (5.00%)				86
Total Contract Cost				1,803
Supervision, Inspection & Overhead (5.70%)				103
Total Request				1,906
Total Request (Rounded)				1,900

1. COMPONENT	FY 2006 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	FIRE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	730-142	JFSD990072	7,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSTRUCT NEW FIRE STATION AND DEMO OLD TWO	SM	2,820	1,754	4,991
BUILD NEW STATION	SM	2,820	1,754	(4,947)
AT/FP PHYSICAL SECURITY MEASURES	SM	2,820	16	(45)
SUPPORTING FACILITIES				1,508
COMMUNICATIONS	M	610	169	(103)
ELECTRIC LINES	M	650	127	(82)
SITE IMPROVEMENTS	SM	15,000	8	(115)
PAVEMENTS	SM	15,000	34	(507)
DEMO BUILDINGS 530 AND 657	SM	2,245	227	(510)
GAS	M	860	57	(49)
WATER/SANITARY SYSTEMS	M	381	211	(80)
GENERATOR	EA	1	60,746	(61)
SUBTOTAL				6,500
CONTINGENCY (5.0 %)				325
TOTAL CONTRACT COST				6,825
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				389
TOTAL REQUEST				7,214
TOTAL REQUEST (ROUNDED)				7,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(710.0)

10. Description of Proposed Construction: BUILD A NEW 2820 SM FIRE STATION NEAR THE HALF-WAY POINT OF THE RUNWAY. THIS PROJECT INCLUDES EXTENDING UTILITES TO THE NEW BUILDING AND ROAD EXTENSIONS TO THE PARKING LOT AND GARAGE EXITS. DEMO TWO OLD FIRE STATION FACILITIES,1975 SM AND 270 SM. ALL NECESSARY AND REQUIRED WORK ASSOCIATED WITH THIS PROJECT. AT/FP PHYSICAL SECURITY IAW DOD MINIMUM CONSTRUCTION STANDARDS.

11. REQUIREMENT: 2,820 SM ADEQUATE: 0 SM SUBSTANDARD: 2,245 SM

PROJECT: CONSTRUCT NEW FIRE STATION (CURENT MISSION)

REQUIREMENT: BUILD A NEW FIRE STATION NORTH OF HANGARS AND FLYING SQUADRON OPERATIONS BUILDINGS. A MODERN, EFFICIENT, COMPLETE FACILITY IS REQUIRED TO EFFECTIVELY HOUSE PERSONNEL AND EQUIPMENT AND SUPPORT THE FIRE PROTECTION MISSION. IT MUST INCLUDE MULTIPLE DRIVE-THROUGH STALLS, AN ADEQUATELY SIZED CENTRAL ALARM/COMM CENTER, PHYSICAL FITNESS AND THERAPY AREAS, AND ENOUGH ADMIN AND MAINTENANCE AREAS. THE NEW FACILITY WILL BE 2820 SM, 836 SM LARGER THAN THE ORIGINAL FIRE STATION BUILT IN 1957. FORCE PROTECTION MEASURES WILL BE INCORPORATED IAW INSTALLATION FORCE PROTECTION GUIDE.

CURRENT SITUATION: THE TWO EXISTING STRUCTURES ARE SIGNIFICANTLY UNDERSIZED, ALONG WITH MANY OF THEIR EXISTING FUNCTIONAL AREAS. PERSONNEL AND EQIPMENT ARE CRAMPED IN THE TWO SMALLER, SUBSTANDARD FACILITES (1975 AND 270 SM). WITH TWO SEPARATE STATIONS, GRAND FORKS IS MISSING THE EFFECTIVENESS OF A COMPLETE, CENTRALIZED, AND MODERN FIRE FIGHTING STATION.

IMPACT IF NOT PROVIDED: THE FUNCTIONAL AREAS WOULD REMAIN CRAMPED AND NOT EFFICIENTLY ARRANGED, DEGRADING THE EFFECTIVE USE OF SPACE AND SLOWING THE EMERGENCY RESPONSE PERSONNEL'S FLOW THROUGH THE FACILITY. THE LACK OF QUALITY AND QUANTITY OF

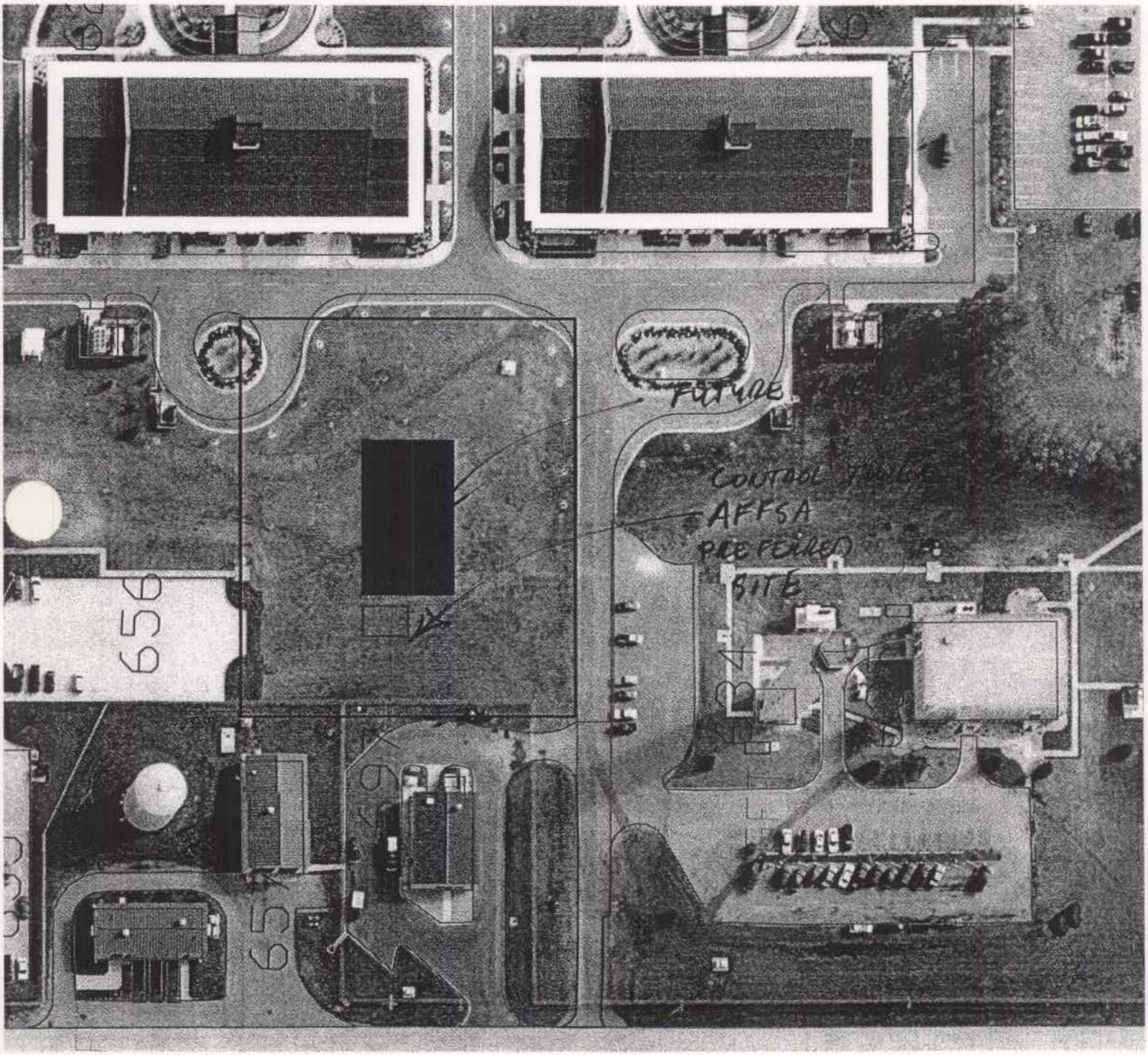
1. COMPONENT	FY 2006 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	FIRE STATION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	730-142	JFSD990072	7,200

ADMINISTRATIVE AND PERSONNEL SUPPORT AREAS WILL CONTINUE TO ADVERSELY IMPACT THE MORALE AND EFFECTIVENESS OF THE FIRE FIGHTING FORCES, CREATING POTENTIAL DANGER FOR THE BASE AND ITS ASSETS.

ADDITIONAL: DEMOLITION COSTS WILL BE HIGH DUE TO INCREASED THICKNESS OF CONCRETE SLABS AND FOUNDATIONS OF OLD FIRE STATIONS. THIS PROJECT MEETS THE CRITERIA/SCOPE SPECIFIED IN AIR FORCE HANDBOOK 32-1084, FACILITY REQIREMENTS. THERE IS NO CRITERIA/SCOPE FOR THIS PROJECT IN PART 2 OF MILITARY HANDBOOK 1190, "FACILITY PLANNING AND DESIGN GUIDE". HOWEVER, THIS PROJECT DOES MEET THE CRITERIA/SCOPE SPECIFIED IN AFH 32-1084, "CIVIL ENGINEERING FACILITY REQUIREMENTS". LT COL JOSEPH H. SCHWARZ, BCE, (701) 747-4769.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DEPARTMENT OF THE AIR FORCE
319TH CIVIL ENGINEER SQUADRON
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

68B
CCS
03-012

18 MAY 2003

MEMORANDUM FOR Mr. L. David Glatt, Chief
Environmental Health Section
North Dakota Department of Health
600 East Boulevard Avenue
Bismarck, ND 58505-0200

FROM: 319 CES/CEV
525 Tuskegee Airmen Blvd
Grand Forks AFB ND 58205-6434

SUBJECT: Environmental Assessment for Proposed Construction of a Fire Station, Control Tower, and Radar Approach Control Ffacility at Grand Forks Air Force Base, North Dakota.

Dear Mr. Glatt:

The U.S. Air Force is preparing an environmental assessment on the above referenced project. The attached *Description of the Proposed Action and Alternatives (DOPAAs)* provides details of the action for your review in accordance with the President's Executive Order on Intergovernmental Review of Federal Programs. Please identify resources within your agency's responsibility that may be impacted by the action. Comments should be sent within 15 days of receipt of this letter to:

Ms. Heidi Durako, 319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

Your assistance in providing information is greatly appreciated. If you have any questions, please call Ms. Durako at 701-747-4774.

Sincerely,

WAYNE A. KOOP, R.E.M.
Environmental Management Flight Chief

Attachment:
DOPAA (3 copies)

DEPARTMENT OF THE AIR FORCE
319TH CIVIL ENGINEER SQUADRON
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

18 MAY 2003

MEMORANDUM FOR Mr. Merlan E. Paaverud, Jr.
State Historic Preservation Officer
State Historical Society of North Dakota
612 East Boulevard Avenue
Bismarck, ND 58505-0200

FROM: 319 CES/CEV
525 Tuskegee Airmen Blvd
Grand Forks AFB ND 58205-6434

SUBJECT: Environmental Assessment for Proposed Construction of a Fire Station, Control Tower, and Radar Approach Control Facility at Grand Forks Air Force Base, North Dakota

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Sincerely,

WAYNE A. KOOP, R.E.M.
Environmental Management Flight Chief

Attachment:
DOPAA (3 copies)