



U.S. Customs and Border Protection

Tucson Sector

Project Delivery Team (PDT)

August 2005

BACKGROUND INFORMATION

The Tucson Sector is responsible for narcotics interdiction, prevention of terrorist and weapons of mass destruction entry into the United States, and apprehension of undocumented aliens between the Ports of Entry from the New Mexico state line to the Yuma Sector's Area of Operation within the Cabeza Prieta NWR. This includes 261 line miles of international boundary.

Problem: Performing patrol activities, relying solely on human resources, has not proven to be the most effective means of controlling illegal activities along the border.

Solution: The use of infrastructure as a “force-multiplier” has proven to enhance OBP patrol activities and deter illegal activities.

What is the Project Delivery Team (PDT)?

The purpose of the PDT is to construct new border barrier infrastructure and enhance existing infrastructure to improve the Sector’s operations. The PDT is tasked with developing projects from the conceptual phase through construction. Some typical infrastructure projects include the planning and construction of the following:

- All-weather, non-paved, patrol roads
- Drag roads

- Low Water Crossings
- Lighting
- Drainage structures (Whitewater Draw in Douglas, Az. Depicted below during construction by the National Guard)



- Temporary & permanent vehicle barrier
- Pedestrian fence

Who Comprises the PDT?

The PDT brings together a team of individuals with a wide-variety of expertise to develop these projects in accordance with accepted industry standards. CBP and the Tucson Sector have retained the services of a full compliment of design professionals. The team members include the following:

- Tucson Sector: User
- U.S. Army Corps of Engineers: agency that provides environmental, cultural resources, real estate, and contracting/procurement support.
- National Guard & JTF-N: Construction Arm
- Sub-consultants: Engineers, Environmental Scientists, Geotechnical Engineers, Surveyors, and others as needed.

THE TUCSON PDT

History

The Tucson Sector PDT is charged with building border infrastructure as prioritized by the Sector. This is accomplished by bringing the parties involved with operation, design, review, environmental compliance, and construction into a common forum and: 1) holding individuals responsible for delivery of items assigned to them; 2) reducing the amount of red tape in the regulatory process by involving regulatory agencies early on; 3) focusing the design effort based on what the agents and station leadership need to accomplish their individual missions; and 4) maintains a sense of team work that has developed in implementing this program.

The Tucson PDT is a team that has worked together for several years with defined roles and responsibilities. The PDT has become a cohesive team with established purpose and goals based on

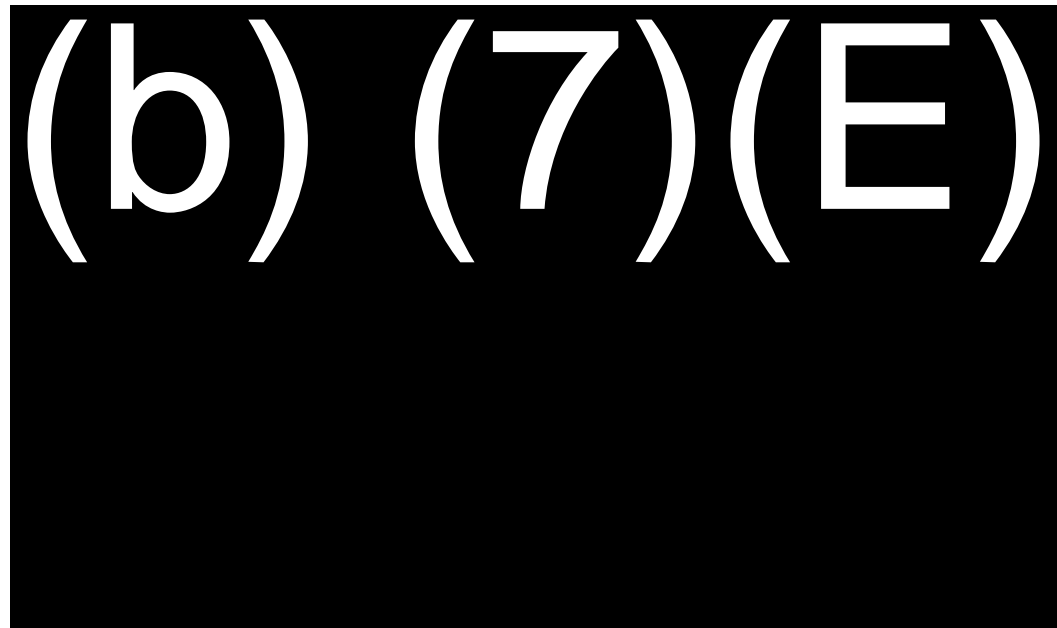
priorities established by the Tucson Sector.

Communication

To maintain communication between all team members and to work through any potential issues, the following forums have been established.

Monthly Meetings:

Meetings alternate between Tucson and Phoenix, Arizona. Members participate in meetings in person, or via conference call.



Working Groups:

The Environmental Working Group (EWG) and Engineering Working Group (EngWG) were established to facilitate focused discussion of technical issues.

ACCOMPLISHMENTS**Projects and Deliverables FY'02 and Preexisting****Infrastructure Prior to 2002:****Douglas:**

- 6.5 miles of total fencing
- Landing mat: 3.8 miles east of POE, .5 miles west of POE (4.3 miles of total landing mat); and Picket fence, 1.7 miles east of POE and .5 miles west of POE (2.2 miles total of picket fence)
- 3.0 miles of lighting: 2 miles east of POE "A" Ave. to Airport Rd.; and 1 mile west of POE to Whitewater Draw
- 4.5 miles of all weather roads

Naco:

- 2.7 miles of landing mat fencing
- 2.5 miles of vehicle barrier
- 2.0 miles of lighting: 1 mile each side of POE

- 2 miles fence extensions

Nogales:

- 2.8 miles of landing mat fencing
- 1.5 miles of lighting

FY'02 Deliverables:**Douglas:**

Constructed:

- 4.5 miles of roadway (Kings Ranch Road for access and Border Roadway for patrol), and Low water crossings east of the POE (number 1 and 7)

Environmental and Engineering Documents:

- Kings Ranch Road/Douglas Border Roadway "Finding of No Significant Impact" FONSI.
- Vertical Fence Extension Cat-Ex.

Naco:

Constructed:

- 1 mile of lighting in Naco west of the POE.
- 1.5 miles vertical fence extensions
- Light Shielding

Environmental and Engineering Documents:

- Naco Portable Light “FONSI
- Vehicle Barrier to landing Mat Fence FONSI
- Naco lighting was shielded after complaints from local astronomy club

Nogales:

Environmental and Engineering Documents:

- Nogales Decontamination Trailer Cat-Ex

Projects and Deliverables FY'03**Sector Wide:**

Environmental and Engineering Documents:

- Rural Typical Lighting Design
- Alternative Primary Fence Design

Naco:

Constructed:

- 0.7 miles of roadway (National Guard Deployment to Naco East of POE)
- Vehicle barrier to landing mat fence, bollard fence in Low Water Crossings East of POE

Environmental and Engineering Documents:

- Naco 4 Miles Roadway (2 miles East & West of POE) Final Design and Drainage Report
- Temporary Vehicle Barrier EA and FONSI

Douglas:

Constructed:

- 0.7 miles of roadway (National Guard Deployment to Douglas WWD Roadway)
- Low Water Crossing No. 1 on Whitewater Draw (WWD) Roadway

Environmental and Engineering Documents:

- Categorical exclusion processed for cable barrier on picket fence in Douglas
- Whitewater Draw Environmental Baseline Study (to ensure no contamination from slag piles)
- WWD (crossing and roadway) 100% design including drainage report, Acquired easement for construction from Phelps Dodge, and Floodplain Use Permit from Cochise County
- Douglas, Picket Fence Extensions designed

Nogales:

Environmental and Engineering Documents:

- Ephraim Ridge Reclamation design, drainage report and EA w/ FONSI
- Drainage Tunnels, Preliminary & Final Design
- 1/2 Mile Roadway, Preliminary & Final Design

Projects and Deliverables FY'04**Douglas:**

Constructed:

- Whitewater Draw Box Culvert
- 1.6 miles Roadway east of the POE
- 1000' Roadway west of the POE
- 1100' Bollard fence
- 1000' Landing Mat fence west of the POE
- 3 Low Water Crossings

Environmental and Engineering Documents:

- 13 Miles of Roadway
- Lighting (5 Miles) Split East and West of the POE
- Construction Oversight and Staking

- International Ditch, Preliminary and Final Design

Naco:

Constructed:

- 1.2 miles Landing mat fence
- 870' Bollard fence
- 0.6 miles Roadway
- 3 Low Water Crossings

Environmental and Engineering Documents:

- Lighting (5 Miles) Split East and West of the POE
- Primary Fencing, Preliminary and Final Design
- Construction Oversight and Staking
- 10-miles Roadway, Preliminary and Final Design

Nogales:

Constructed:

- ½ mile of roadway

Environmental and Engineering Documents:

- 1-½ Miles Roadway
- Construction Oversight and Staking

- Aerial Phototopo West of Nogales
- Schematic Design – 10 miles roadway

Sonoita:

Environmental and Engineering Documents:

- Preliminary Design – Corridor Report for EA

Other Stations:

Environmental and Engineering Documents:

- Permanent Survey Markers with deployments
- Temporary Vehicle Barriers (SON, NGL, TUC Stations)

PROJECTS

Projects Descriptions

The PDT used the Tucson Sector Border Infrastructure Reference Document (BIRD) as a starting point to further identify the priority projects for 2004-2010. A two-page project description was developed for each project that included:

- Project Overview
- Goals
- Existing Infrastructure
- Proposed Infrastructure

- Project Summary: Real Estate, Environmental, Design, and Construction Key Issues
- Map of Project Area

These project descriptions are found attached to this document. FY'05 and FY'06 projects are further defined within these overall projects. The use of the 60 foot Roosevelt Reservation facilitates most projects. Construction costs are estimated based on previous experience and current costs of materials. Construction is typically limited to military deployments. FY'04 had ten scheduled deployments. Joint Task Force – North based out of El Paso sources active duty units and the Arizona Army National Guard sources National Guard units through the Innovative Readiness Training Program (IRT). National Guard deployments have been focused in the area west of the Port of Entry in Douglas.

TCA represents the Tucson Sector, DGL is Douglas Station, NCO is Naco Station, NGL is Nogales Station and SON is Sonoita Station. Projects are stationed from the Port-of-Entry (POE). As these are ongoing projects associated with a program, the projects span several years as noted in the spending plan.

- TCA DGL 001: A total of 16 miles roadway with associated pedestrian fence and vehicle barriers to improve USBP access and restrict cross border access, to be constructed through FY'10
- TCA DGL 002 – culvert replacement in Douglas associated with a patrol road west of the POE
- TCA DGL 003 – International Ditch Reconstruction is an earthen channel parallel the border in Douglas, east



of the POE that is failing and allowing erosion to undermine the border fence.

- TCA DGL 004 – Lighting Project to illuminate 10 miles of the border in Douglas through FY’10
- TCA DGL 005 – Whitewater Draw box culvert and associated fencing and roadway to allow USBP access for interdiction of narcotics and UDA traffic.
- TCA DGL 017 – Pedestrian Fence in Douglas to secure the border from narcotics and UDA traffic.
- TCA NCO 006 – Patrol Roadway nearest the POE, under construction FY’04
- TCA NCO 007 – Naco Lighting Project to illuminate 10 miles of the border near Naco.
- TCA NCO 008 – Naco Roadways out from the POE. A total of 20 miles roadway with associated pedestrian fence and vehicle barriers to improve USBP access and restrict cross border access, to be constructed through FY’10
- TCA NCO 009 – Pedestrian Fence in Naco typically constructed along with roadways during military deployments. Total of 20 miles to be constructed through FY’10.
- TCA NGL 010 – Currently designed roadway project (2 miles of roadway East of POE)
- TCA NGL 011 – Ephraim Ridge Reclamation
- TCA NGL 012 – Schematic design for access and patrol road improvements in Nogales to facilitate interdiction of narcotics and apprehension of UDAs. A total of 10 miles roadway with associated pedestrian fence and vehicle barriers to improve USBP access and restrict cross border access, to be constructed through FY’10
- TCA NGL 013 – Vehicle Barriers, both temporary and permanent for Nogales, Sonoita, Tucson, Casa Grande, and Ajo Stations to restrict cross border traffic by narcotics smugglers and UDAs.
- TCA NGL 014 – Tunnel Access Improvements in Nogales under the Deconcini POE to facilitate agent entries to interdict narcotics and apprehend UDAs.
- TCA NGL 015 – Lighting between Deconcini and Mariposa POE must be relocated closer to the border to reduce the enforcement zone and improve illumination of the border.
- TCA SON 016 – Environmental Assessment for Roadway and Grading. A total of 8 miles roadway with associated pedestrian fence and vehicle barriers to improve USBP access and restrict cross border access, to be constructed through FY’10.
- TCA DGL 017 – Pedestrian Fence in Douglas. Construction of pedestrian fence and associated engineering. Engineer has designed landing mat fence and bollard fencing and developed Bill-of-Materials (BOM) for deployments. Replacement for dwindling supply of landing fence is required.
- TCA AJO 018 - Vehicle barrier and all weather aggregate roadway along the border within the Cabeza Prieta NWR. 56-mile international border with Sonora, Mexico (23 miles in the Tucson Sector AO and 33 miles in the Yuma AO).

Challenges:

- Five canceled deployments in FY’03 due to the Iraq War lead to delays during FY’03 and subsequent demands on military units continue to restrict sourcing construction units.

- Schedule shifts and reallocation of resources required in order to satisfy JTF-N and National Guard Construction Schedule. New accounting processes reduced flexibility to reallocate funds to accommodate changing deployment schedules.
- Steel and concrete shortage compounded by remote locations for delivery
- Acquisition of right-of-entries and easements from private landowners

FUTURE

Budget Requirements

Financial Overview:

The PDT is currently operating on funds received through FY'2004. Additional monies will be required annually in order to capitalize on the current success of the program.

Budget Requirements:

The additional funding requirements associated with the long-term projects are projected as follows on a fiscal year basis:

- FY'05 Funds (b) (5)
- FY'06 Funds (b) (5)
- FY'07 Funds (b) (5)
- FY'08 Funds (b) (5)
- FY'09 Funds (b) (5)
- FY'10 Funds (b) (5)
- FY'11 Funds (b) (5)

- FY'12 and Out Year Funds (b) (4)

Projects and Deliverables FY'05 (Pending)

Douglas:

Construction:

- Retrofit of 2 miles of lights
- Low Water Crossing #5
- 1.5 miles of Patrol Roads

Environmental and Engineering Documents:

- 2 additional miles of roadway

Naco:

Construction:

- 2.5 miles of Lights west of the Naco POE.
- 1.2 miles of road, 5 Low Water Crossings with Bollard Fence west of the Naco POE. Note: the waterline must be moved.
- 1 mile roadway west of the POE

FY'06 Scheduled Deployments

Project Prioritization:

Prioritization of projects is driven by operational needs and the availability of construction units and funds. The Sector's spending plan is continuously updated to reflect deployments, changed priorities, directives from HQBOR, and funding on the Border Infrastructure Program.

Projects and Deliverables FY'06 (Proposed)

Douglas:

Construction:

- 1.5 miles of Patrol Roads

Environmental and Engineering Documents:

- 2 additional miles of roadway

Naco:

Construction:

- 2.5 miles of Lights west of the Naco POE.
- 1.2 miles of road, 5 Low Water Crossings with Bollard Fence west of the Naco POE. Note: the waterline must be moved.
- 1 mile roadway west of the POE.

Environmental and Engineering Documents:

10 additional miles of roadway

Sonoita:

Environmental and Engineering Documents:

- 5 miles roadway

Nogales:

Construction:

- Pave ½ miles of Roadway

Environmental and Engineering Documents:

- Relocation of lights in closer to border
- 2 additional miles of roadway
- 10 miles of roadway EA

Casa Grande:

Environmental and Engineering Documents:

- Vehicle Barrier EA on TON

Ajo:

Environmental and Engineering Documents:

- Cabeza Prieta NWR Vehicle Barrier EA

Construction Schedule:

It is the goal of Tucson Sector to maintain a two year project "backlog" ready to begin construction as soon as military units



become available. This is required so the military can adequately schedule deployments. The FY'06 deployment Schedule has not been released as of this date.

**Tucson Sector
Project Delivery Team (PDT)
August 2005**

Attached Information

CURRENT EXPENDITURES

PROJECT DESCRIPTIONS

PDT MEETING MINUTES (Current PDT Meeting Minutes - Previous meeting minutes available, please contact [REDACTED] (b) (6))

AERC WEBPAGE UPDATES

ENVIRONMENTAL MATRIX

PROJECT MANAGEMENT PLAN (PMP)

Spending Plan

TCA PDT Contact List

MOUs

Specification references



U.S. Customs and Border Protection

PROJECT DESCRIPTIONS FY'05

Douglas Roadways

Project Description

Construction of a total of 2-miles of patrol roads. Starting 5 miles east of the POE and extending 1 mile east to be constructed by troops sourced from the military, and starting 7.1 miles west of the Douglas POE and continuing west 1 mile.



Project Goals

These patrol road projects are being constructed out from the POE's in either direction in relatively urbanized areas providing a force multiplier to the Office of Border Patrol. This project also improves access in securing the borders of the United States and restricting cross border access thereby: 1) reducing the influx of illegal alien traffic; 2) interdict narcotics traffic into the United States; and 3) assist the OBP in responding to migrant rescues.

Existing Infrastructure Include

Dirt roads

Proposed Infrastructure To Be Constructed

All weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; Low water crossings and vehicle barriers at known crossing points.



Project Summary

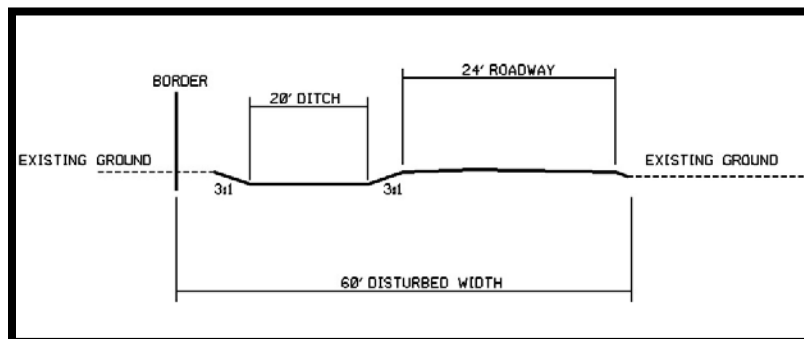
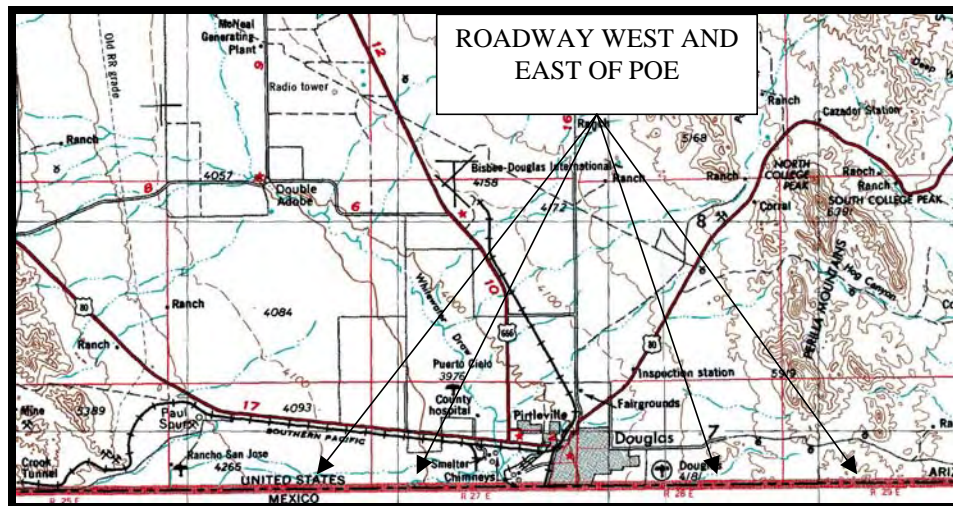
Real Estate: All work and access will be within the 60' Roosevelt Reservation; Rights of entry are obtained for access and temporary storage.

Environmental: All work is within the Supplemental Environmental Assessment for the Naco-Douglas Corridor

Design: Complete and pending funding. The design was prepared by Baker Engineering, Inc.

Construction: National Guard or JTF-6 forces will perform the construction work.

Previous projects in this area have cost the PDT (b)(5) per mile of patrol road.



Douglas, Lighting East and West of the POE**Project Description**

Beginning approximately 2-miles east and 1-mile west of the Douglas POE, the design will feature permanent lighting 1 mile in each direction (2 total miles). Use of the standard rural lighting design, previously completed, is anticipated for this project.

**Project Goals**

The proposed project will improve the capabilities of the OBP in securing the borders of the United States by illuminating this portion of the border, thereby: 1) reducing the influx of illegal alien traffic; and 2) help interdict narcotics traffic into the United States. This project serves as a force multiplier thereby freeing up resources for greater enforcement.

Existing Infrastructure Include

Dirt roads, aggregate roadway and some pedestrian fencing

Proposed Infrastructure To Be Constructed

2 miles of permanent lighting consisting of poles, connected by electrical cable, fitted with halogen stadium lights and fixtures, and energized by Arizona Public Service.

Project Summary

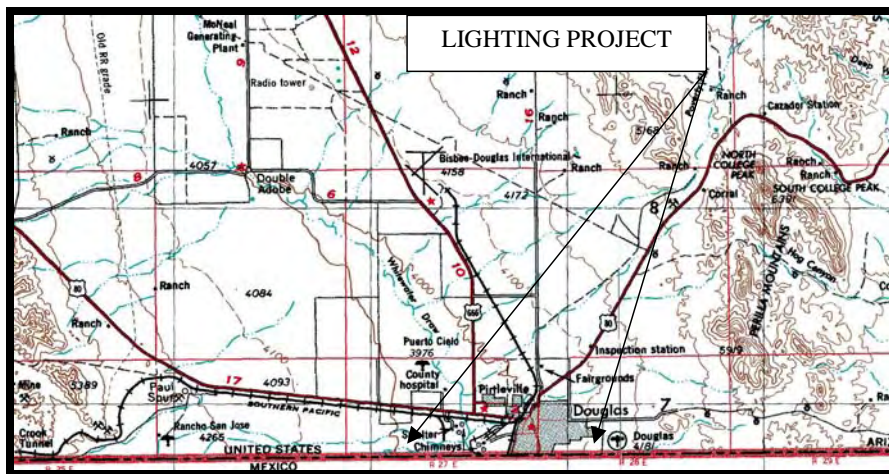
Real Estate: All work and access will be within the 60' Roosevelt Reservation

Environmental: All work is within the Supplemental Environmental Assessment for the Naco Corridor

Design: The standard design will be applied to the specific project location and adjusted as required to maintain a theoretical minimum light illumination of five (3) foot-candles at any given location between the border and the light installation location. This same lighting type has been successfully implemented in Naco Arizona during the 2004 deployments.

Construction: National Guard or JTF-6 forces will perform the construction work.

Previous lighting projects in this area have cost the PDT (b)(5) per mile of new lighting.



Douglas Whitewater Draw Bollard Fencing

Project Description

Bollard fence is proposed for those areas where drainage flow crosses the border. The Bollards allow flow but preclude pedestrian and vehicular traffic. This project will complete 0.4 miles of bollard fencing west of the Whitewater Draw Project



Project Goals

The proposed project will improve access and thereby: 1) reduce the influx of illegal alien (UDAs) traffic; 2) interdict narcotics traffic into the United States; and 3) assist the USBP in responding to migrant rescues and agents in danger. When this area is flooded agents must drive an additional 5 miles to access the other side of the watercourse.

Existing Infrastructure Include

Dirt roads and landing mat fence to the east

Proposed Infrastructure To Be Constructed

bollard and landing mat pedestrian fence and low water crossings along previously constructed patrol roads.

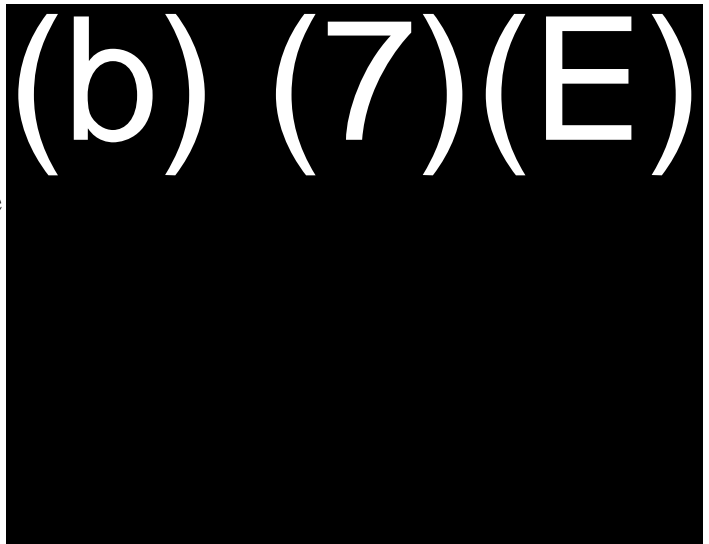
Project Summary

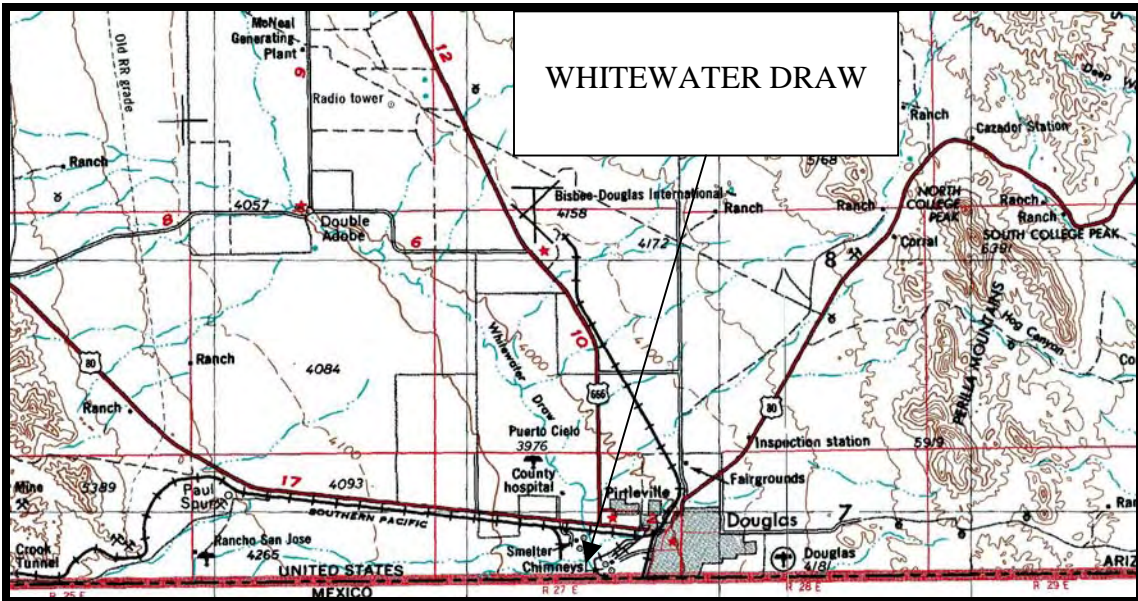
Real Estate: All work and access will be within the 60' Roosevelt Reservation.

Environmental: All work is within the Naco-Douglas Corridor EA

Design: Bollard fence design has been completed by Baker Engineering, inc.

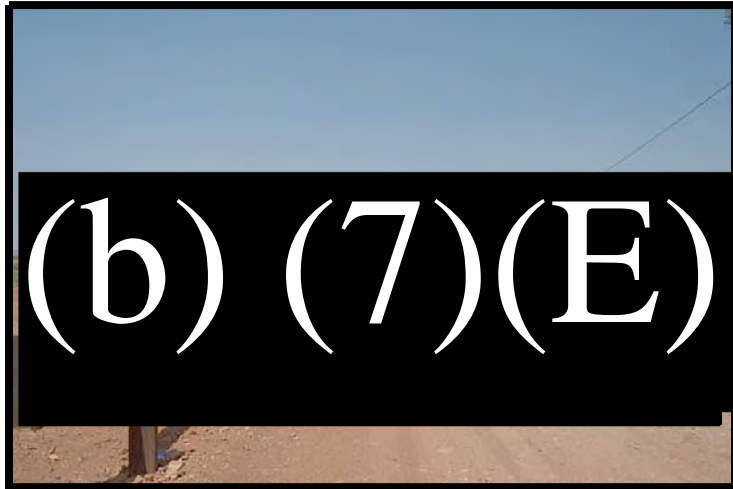
Construction: National Guard will perform the construction work.





Naco, Lighting West of the POE**Project Description**

1 mile west of the Naco Port-of-Entry: design and construct permanent lighting 2 miles west. Use of the standard rural lighting design, previously completed, is anticipated for this project. Previous lighting projects in Naco have been constructed by JTF-N.

**Project Goals**

The proposed project will improve the capabilities of the OBP in securing the borders of the United States by illuminating this portion of the border, thereby: 1) reducing the influx of illegal alien traffic; and 2) help interdict narcotics traffic into the United States. This project serves as a force multiplier thereby freeing up resources for greater enforcement.

Existing Infrastructure Include

Dirt roadway
Some vehicle barriers, both permanent and temporary
Improved aggregate roadway

Proposed Infrastructure To Be Constructed

2 miles of permanent lighting consisting of poles, connect by electrical cable, fitted with halogen stadium lights and fixtures, and energized by Arizona Public Service.

Project Summary

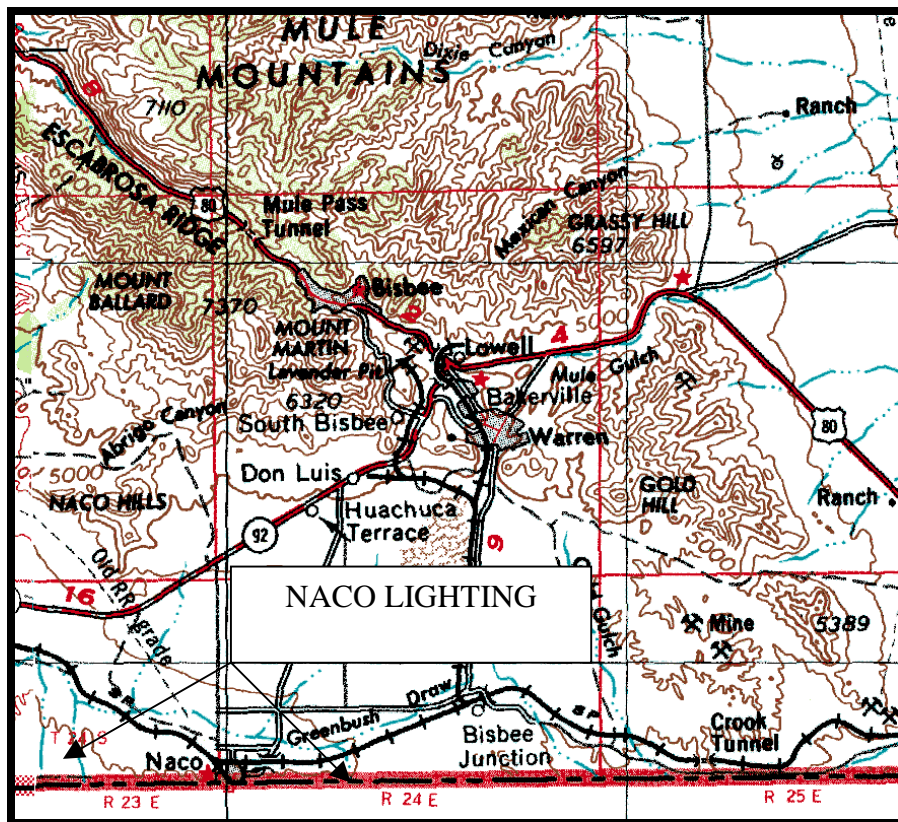
Real Estate: All work and access will be within the 60' Roosevelt Reservation

Environmental: Part of the Naco-Douglas Corridor Supplemental EA, final pending

Design: Use of the typical rural design modified for the terrain. Stadium lights will be used with similar ballast and lights as already used in Naco.

Construction: National Guard or JTF-6 forces will perform the construction work.

Previous lighting projects in this area have cost the PDT (b)(5) per mile of new lighting.



Naco, Roadways East and West of POE

Project Description

A total of 2 miles of roadway with associated pedestrian fence and vehicle barriers beginning approximately 3.5 miles west of the Naco Port-of-Entry and continuing for 1 mile west, and approximately 3.5 miles east continuing 1 mile east.



Project Goals

These patrol road projects are being constructed out from the POE's in either direction in relatively urbanized areas providing a force multiplier to the Office of Border Patrol. This project also improves access in securing the borders of the United States and restricting cross border access thereby: 1) reducing the influx of illegal alien traffic; 2) interdict narcotics traffic into the United States; and 3) assist the OBP in responding to migrant rescues.

Existing Infrastructure Include

Dirt roadway
Some vehicle barriers, both permanent and temporary

Proposed Infrastructure To Be Constructed

Construction of one mile of patrol road west of the POE. All weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; conversion of vehicle barrier to fence; and Low water crossings.

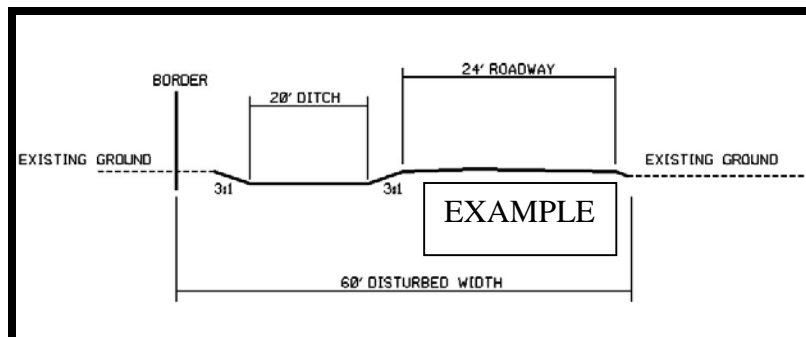
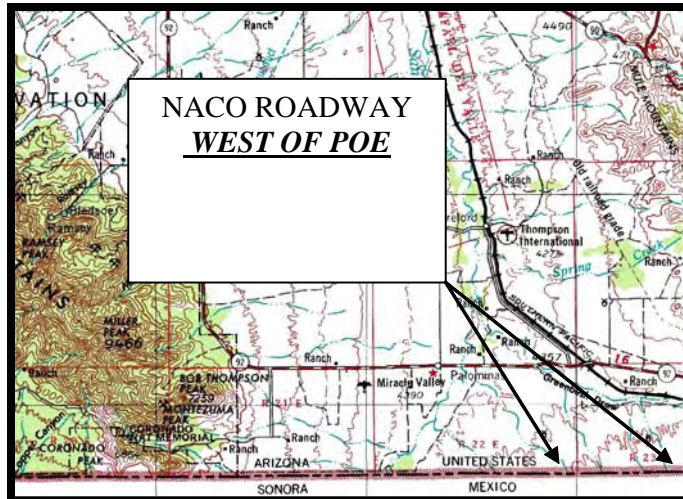
Project Summary

Real Estate: All work and access will be within the 60' Roosevelt Reservation, ROEs in place for access.

Environmental: Naco-Douglas Corridor Supplemental EA

Design: Permanent infrastructure for this phase of construction will be contained within the existing 60 feet reservation. Drainage structures need to include deterrents to alien traffic. The plans will include roadway plan and profile sheets along with typical sections, storm water pollution prevention plan (SWPPP), construction details and complete bill of materials for military use.

Construction: National Guard or JTF-N forces will perform the construction work. Previous projects in this area have cost the PDT (b)(5) per mile of patrol road.



Sonoita Patrol Roads

Project Description

The USBP Sonoita Station is in need of access maintenance, primarily on U.S. Forest Service Lands. Construction in FY'05 of .5 miles improved existing roadway as part of a 25 mile all weather road improvement multi-year project. This will include coordination with effected agencies and compliance with the appropriate environmental documents. Construction is to take place through FY'10.



Project Goals

Improve access through a remote area to increase agent response to emergencies, and facilitate the apprehension of illegal aliens and interdict narcotics.

Existing Infrastructure Include

USFS roadways and trails.

Proposed Infrastructure To Be Constructed

All weather aggregate base patrol road and construction of drainage features where required.

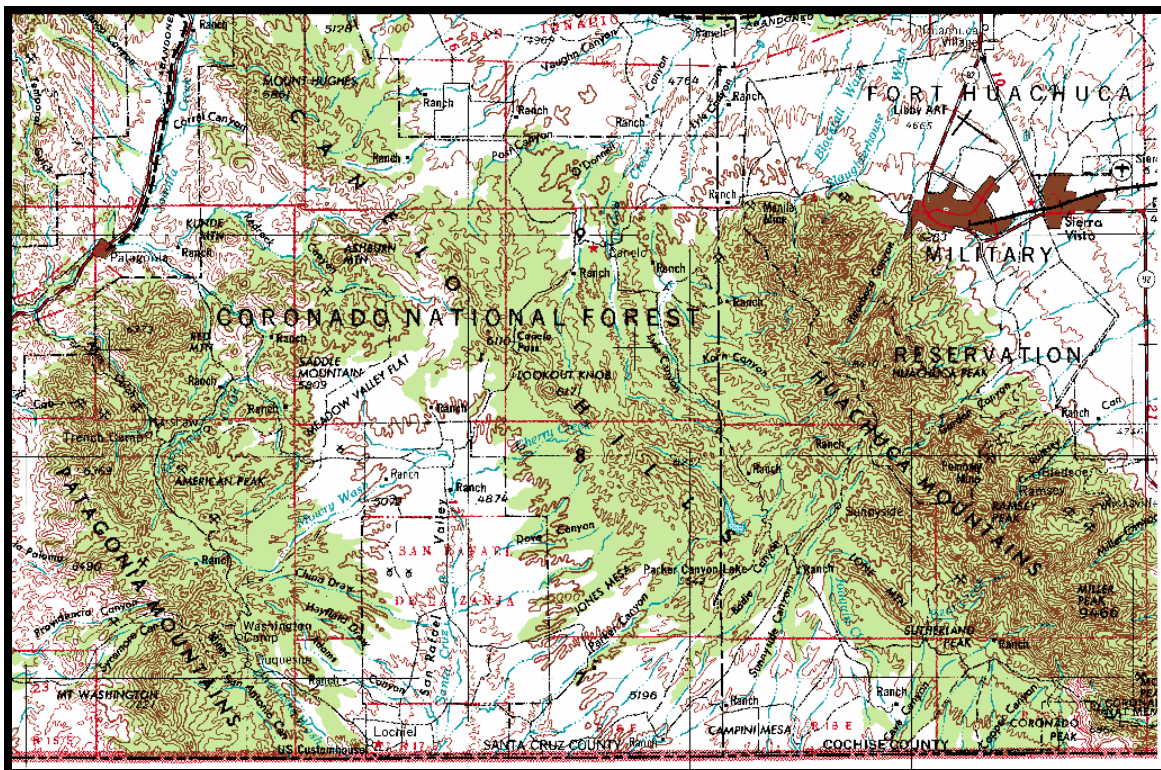
Project Summary

Real Estate: coordination with the US Forest Service and private property owners is required. Mostl work and access will be within the 60' Roosevelt Reservation; Rights of entry are obtained for access and temporary storage.

Environmental: This project will develop the required NEPA documents

Design: 5 miles of Roadway is under design with previous year funding. The roadway will be all weather aggregate base with associated drainage features. The exact location of the).5 miles to be constructed in FY'05 is yet to be determined.

Construction: National Guard or JTF-N forces will perform the construction work. Work schedule is dependant on the availability of sourced units. Previous projects in this area have cost the PDT (b)(5) per mile of patrol road.



Douglas, Primary Fencing **Project Description**

Construction of pedestrian fence and associated engineering (see map and typical detail). Engineer has located landing mat fence and bollard fencing and developed Bill-of-Materials (BOM) for deployments. FY'05 construction schedule is for 4 miles of landing mat fence depending on availability of sourced units. This project will include additional fence extensions as directed in the field.



Project Goals

Prevent illegal alien and smugglers from pedestrian and vehicular access across the border into the United States. Pedestrian fence is being constructed out from the POE's in either direction in relatively urbanized areas providing a force multiplier to the Office of Border Patrol.

Existing Infrastructure Include

IBWC barbed wire fence, Dirt roads, and Some vehicle barriers

Proposed Infrastructure To Be Constructed

Pedestrian fence constructed of steel pipe placed into the ground, with pipe welded laterally and covered with surplus landing mat (steel sheets of corrugated steel). Previously this has been associated with concurrent roadway projects.

Project Summary

Real Estate: All work and access will be within the 60' Roosevelt Reservation. Rights-of-Entry's (ROEs) will be obtained for access outside the 60'.

Environmental: part of the Naco-Douglas Supplemental EA

Design: This item will require compiling fencing details into prepackaged projects matching military training mission guidelines and in compliance with environmental documents.



Construction: National Guard or JTF-N forces will perform the construction work. Pending deployments. Replacement for dwindling supply of landing fence may be required in the near future.

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Vehicle Barriers

Project Description

There is a need for additional permanent and temporary vehicle barriers to be placed along the border at Nogales, Sonoita, Tucson, Casa Grande, and Ajo Stations. The Tucson Sector proposes to place vehicle barriers between these locations along a 50-mile corridor. Barriers are typically steel pipe arranged such that a ^{(b) (7)} foot section is supported at waist height.



Project Goals

Prevent vehicular traffic from crossing the border in remote locations. This will slow and deter the illegal and narcotic traffic using vehicles and serve as a force multiplier to the OBP.

Existing Infrastructure Include

Trails and dirt roads

Proposed Infrastructure To Be Constructed

Permanent and temporary vehicle barriers.

Project Summary

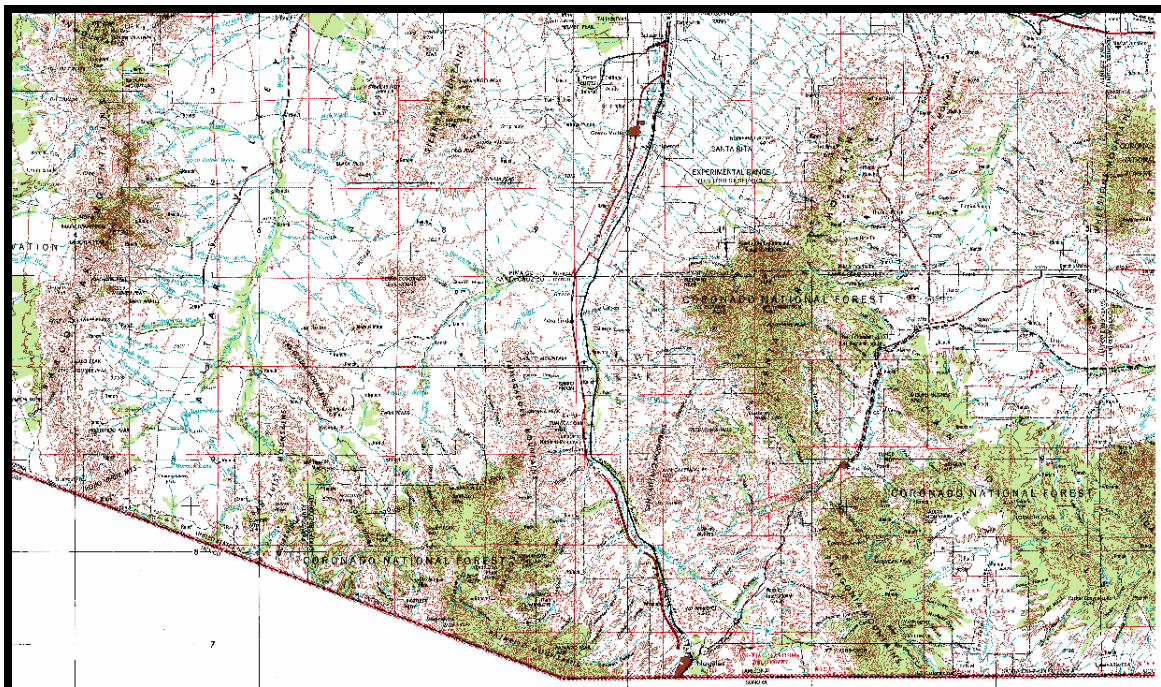
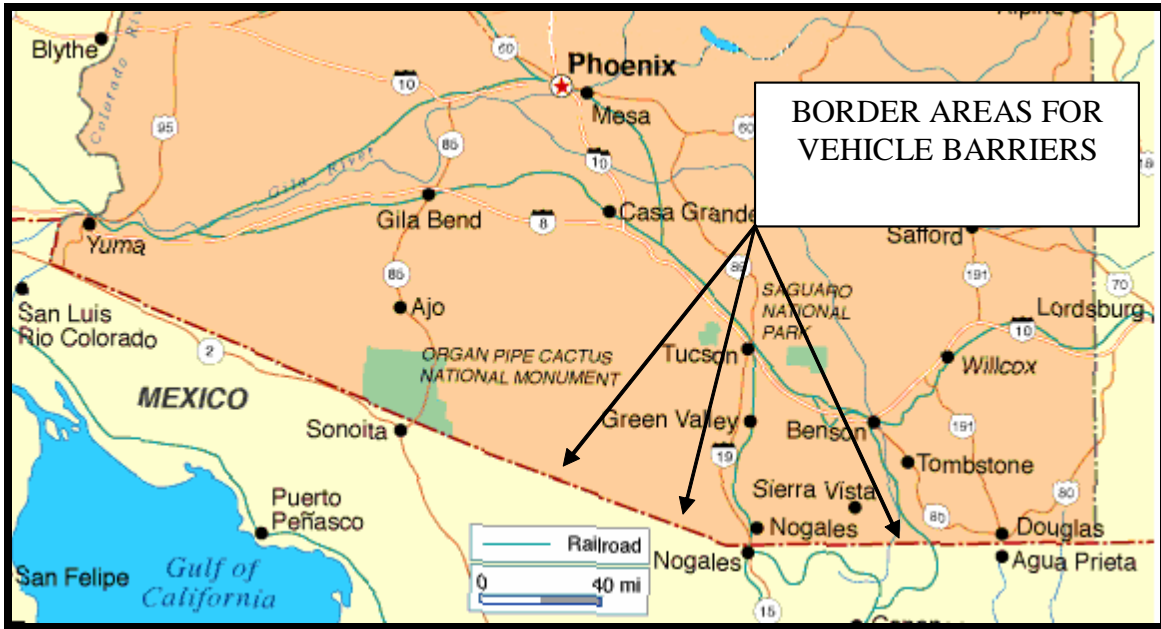
Real Estate: All work and access will be within the 60' Roosevelt Reservation.

Environmental: NEPA documents have been prepared, except within the TON where a separate document is needed.

Design: Vehicle barriers using the typical temporary design placed in Organ Pipe, both permanent and temporary.

Construction: National Guard or JTF-6 forces will perform the construction work.

(b)(6)&(b)(7)(c)&(b)(7)(e)



Nogales, 2 Miles Roadway, Sta 10+00E to Sta 115+00E**Project Description**

Beginning approximately 1000 feet east of the Nogales port-of-entry and continuing approximately 2 miles further east is a stretch of marginal and non-existent border road. The project includes numerous drainage crossings and primary fencing. FY'05 funding will provide construction support for this project.

**Project Goals**

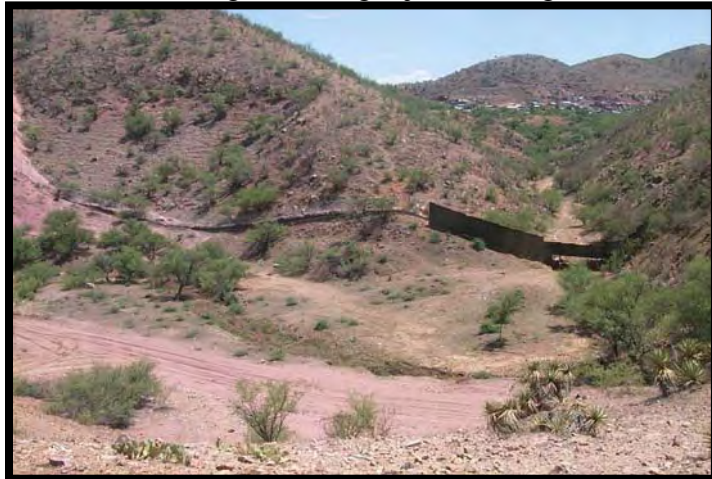
The proposed project will improve access of the USBP in securing the borders of the United States by improving access and thereby: 1) reduce the influx of illegal alien traffic; 2) interdict narcotics traffic into the United States; and 3) assist OBP in responding to migrant rescues. Access is critical as this area has been the site of rock throwing involving injuries to Agents.

Existing Infrastructure Include

Dirt roadway
Some primary fence

Proposed Infrastructure To Be Constructed

Two miles of roadway construction starting 1000 feet east of the POE and continuing 2 miles to the east; All-weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; and Low water crossings.

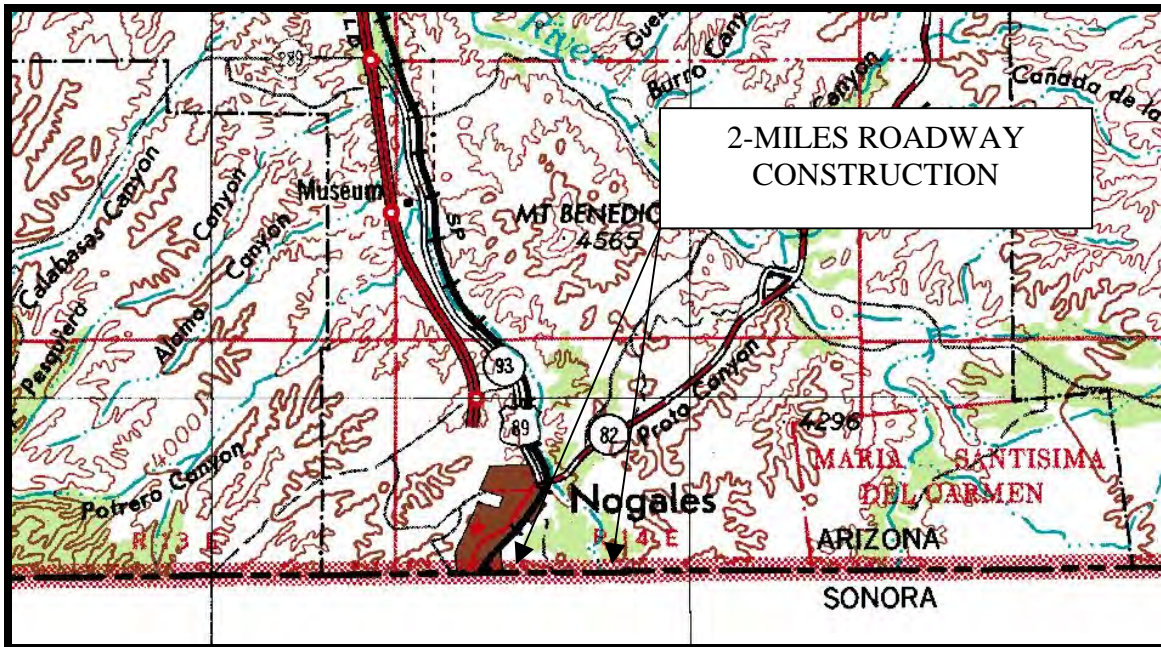
**Project Summary**

Real Estate: some work and access will be within the 60' Roosevelt Reservation, ROEs for access must be prepared, extensive easements required due to terrain.

Environmental: Nogales Infrastructure EA, Final Pending

Design: Permanent infrastructure for this phase of construction will be contained within the existing 60 feet reservation for the first ½ mile. The plans include proposed roadway plan and profile sheets along with typical sections, storm water pollution prevention plan (SWPPP), construction details and complete bill of materials for military use.

Construction: National Guard or JTF-n forces will perform the construction work.



Nogales Schematic Design

Project Description

Complete the 15% schematic design plans will be developed for approximately four (4) total linear miles, two (2) miles east of Sta. 115+00E and two (2) miles west of the Nogales Port-of-Entry. Anticipated Construction of 4 linear miles of roadway though FY'10.



Project Goals

Preliminary design of proposed facilities and their associated environmental documents. Ultimately, final designs and NEPA documents will be developed from this project.

Existing Infrastructure Include

Dirt roadways, some lighting and primary fence

Proposed Infrastructure To Be Constructed and Associated Documents

Schematic Design and NEPA documents for roadways, lighting and primary fencing. All-weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; and Low water crossings. Permanent lighting consisting of poles, connected by electrical cable, fitted with halogen stadium lights and fixtures, and energized by Arizona Public Service.

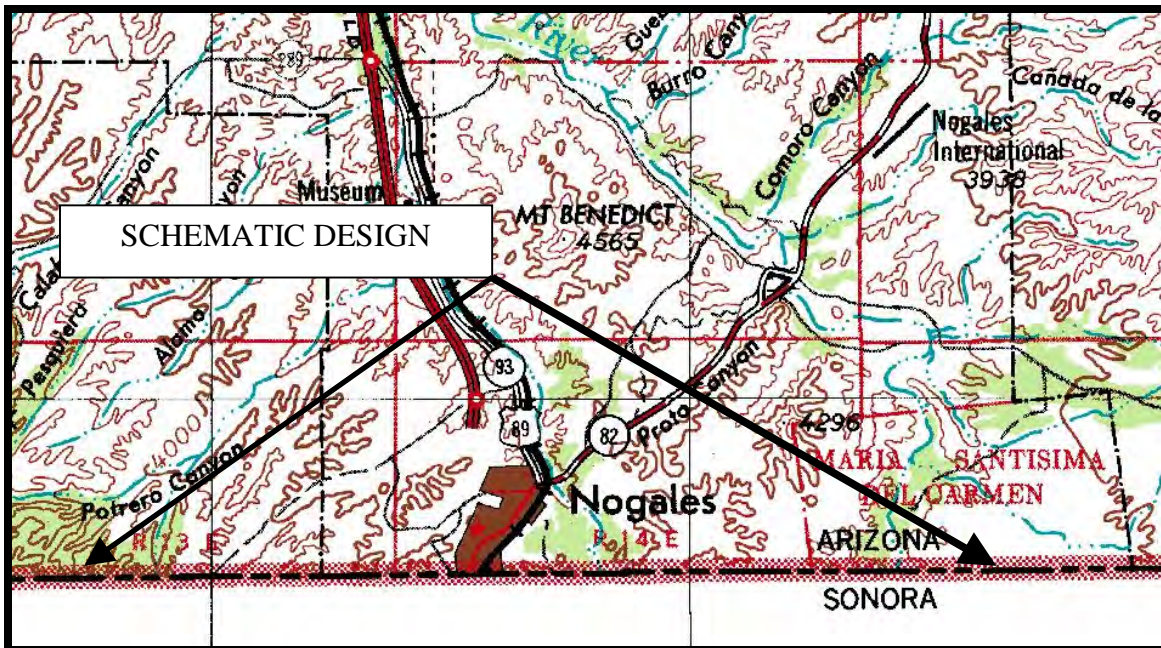
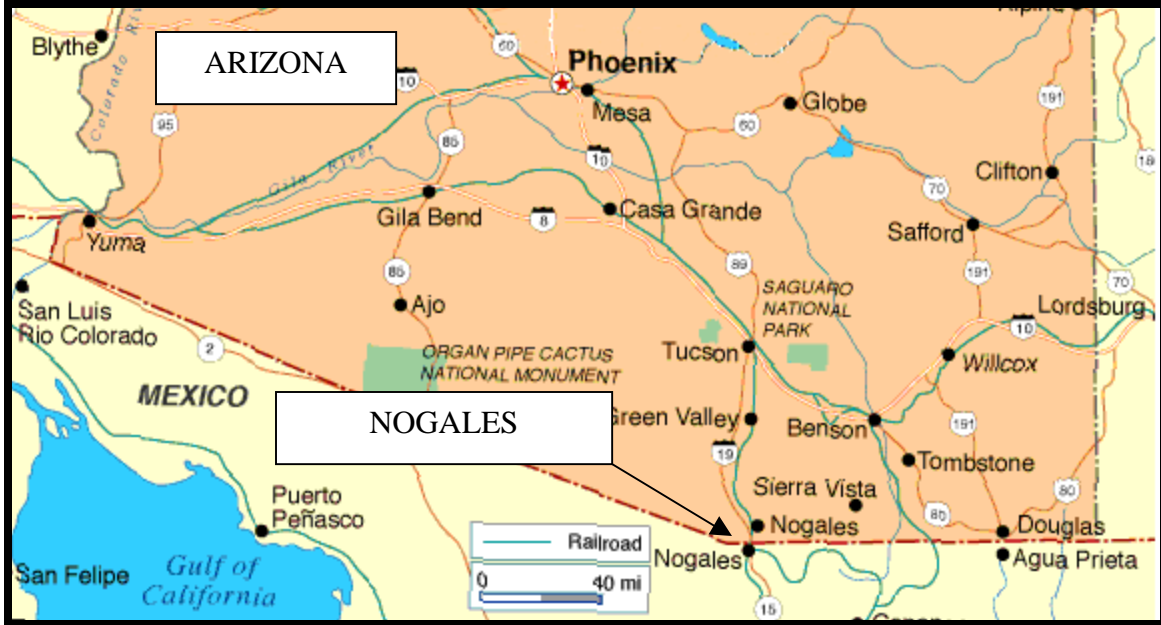
Project Summary

Real Estate: All work and access will be within the 60' Roosevelt Reservation; areas outside the 60' will require ROEs

Environmental: EA will be performed under this project

Design: The engineer will develop and submit to the PDT for review and comments 15% plans that include: Final geotechnical investigation providing recommendations for roadway pavement sections, erosion control measures, and slope protection measures required for construction (see geotechnical scope for more detail); Preliminary horizontal and vertical geometry for a primary all-weather road and drag road; Preliminary bollard fence placement locations; Development of typical section(s); and Preliminary earthwork quantities.

Construction: National Guard or JTF-N forces will perform the construction work.





U.S. Customs and Border Protection

PROJECT DESCRIPTIONS FY'06

Douglas Roadways

Project Description

Construction of a total of 1.5-miles of patrol roads. Starting 6 miles east of the POE and extending 0.5 miles east to be constructed by troops sourced from JTF-North, and starting 8.1 miles west of the Douglas POE continuing west 1 mile to be constructed by the National Gaurd.



Project Goals

These patrol road projects are being constructed out from the POE's in either direction in relatively urbanized areas providing a force multiplier to the Office of Border Patrol. This project also improves access in securing the borders of the United States and restricting cross border access thereby: 1) reducing the influx of illegal alien traffic; 2) interdict narcotics traffic into the United States; and 3) assist the OBP in responding to migrant rescues.

Existing Infrastructure Include

Dirt roads

Proposed Infrastructure To Be Constructed

All weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; Low water crossings and vehicle barriers at known crossing points.



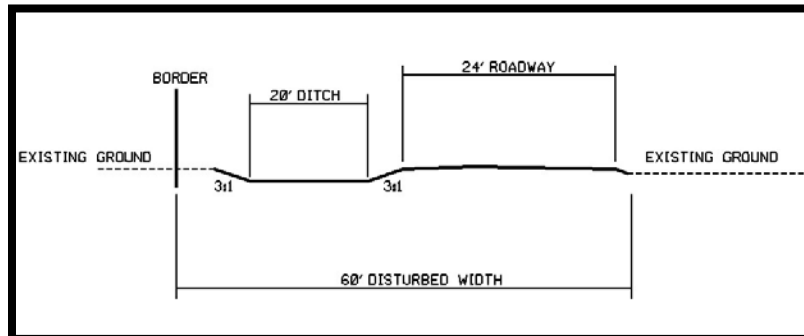
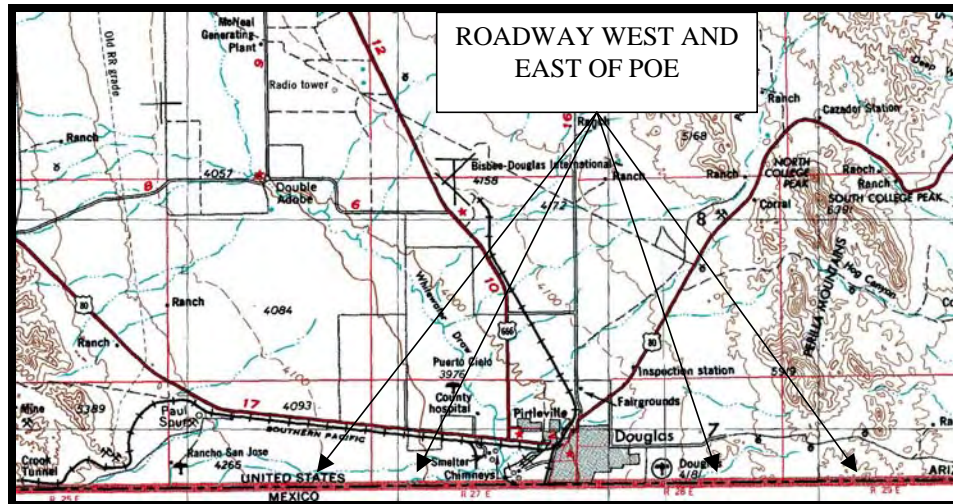
Project Summary

Real Estate: All work and access will be within the 60' Roosevelt Reservation; Rights of entry are obtained for access and temporary storage.

Environmental: All work is within the Supplemental Environmental Assessment for the Naco-Douglas Corridor

Design: Complete and pending funding. The design was prepared by Baker Engineering, Inc.

Construction: National Guard or JTF-6 forces will perform the construction work. Previous projects in this area have cost the PDT (b)(5) per mile of patrol road.



Douglas, International Ditch

Project Description

Approximately 1.3 miles of existing unstable earthen ditch will be replaced with concrete lined channel on the east side of the Port-of-Entry in Douglas.



Project Goals

Provide easier access to the channel and culvert system to apprehend UDAs and interdict narcotics, prevent further erosion and damage to the adjacent roadway and border fence.

Existing Infrastructure Include

Earthen channel and reinforced concrete box culvert under the POE.

Proposed Infrastructure To Be Constructed

1.3 miles of concrete channel and potential installation of lights

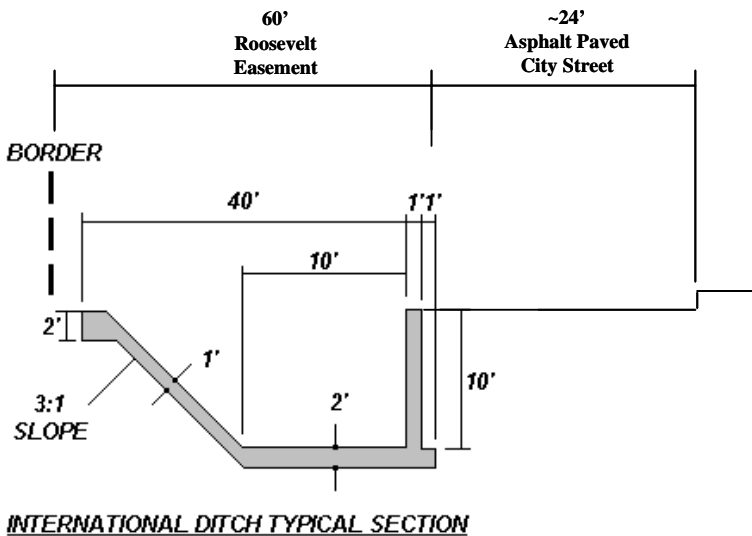
Project Summary

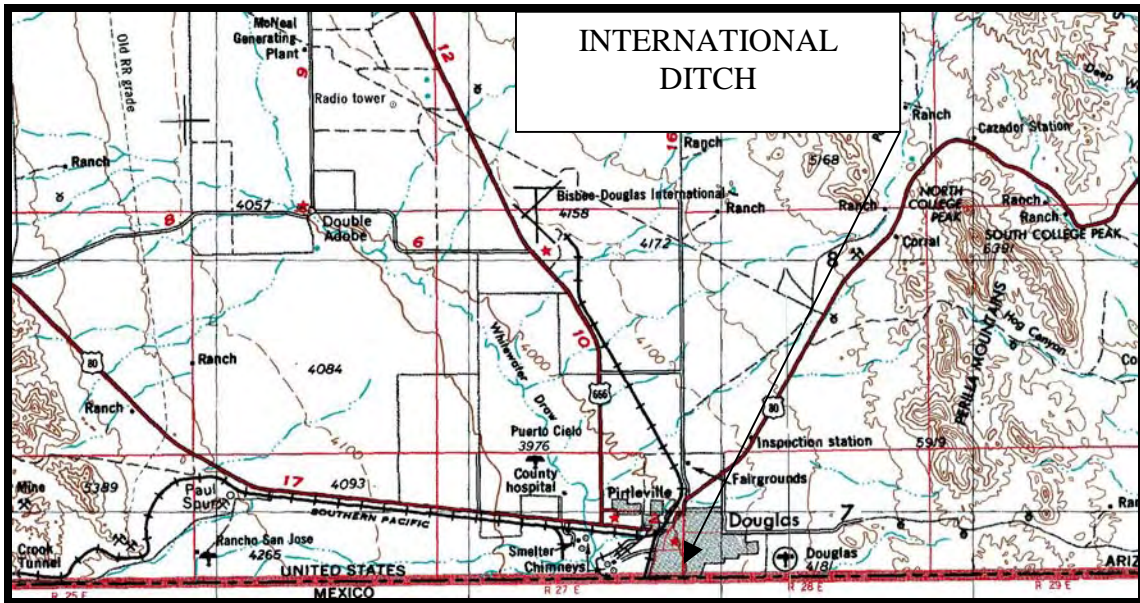
Real Estate: All work and access will be within the 60' Roosevelt Reservation or the adjacent public roadway

Environmental: covered under the Naco-Douglas Corridor EA.

Design: Currently under design by Michael Baker, Jr. Engineering, inc. The channel design will be for the largest frequency storm that the typical section provided by the Border Patrol, for security, is capable of conveying. Design will include plans, specification, and cost estimate for military construction.

Construction: National Guard or JTF-N forces will perform the construction work.





Naco, Roadways East and West of POE

Project Description

A total of 1 mile of roadway with associated pedestrian fence and vehicle barriers beginning approximately 4.5 miles west of the Naco port-of-entry and continuing for 0.5 mile west, and 4.5 miles east of the POE continuing east 0.5 miles.



Project Goals

These patrol road projects are being constructed out from the POE's in either direction in relatively urbanized areas providing a force multiplier to the Office of Border Patrol. This project also improves access in securing the borders of the United States and restricting cross border access thereby: 1) reducing the influx of illegal alien traffic; 2) interdict narcotics traffic into the United States; and 3) assist the OBP in responding to migrant rescues.

Existing Infrastructure Include

Dirt roadway
Some vehicle barriers, both permanent and temporary

Proposed Infrastructure To Be Constructed

Construction of one mile of patrol road. All weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; conversion of vehicle barrier to fence; and Low water crossings.

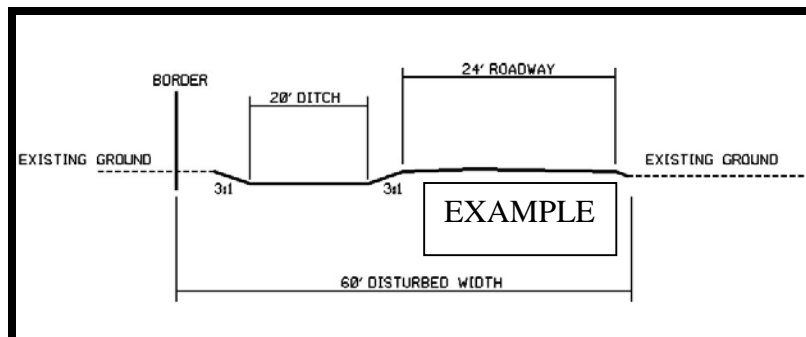
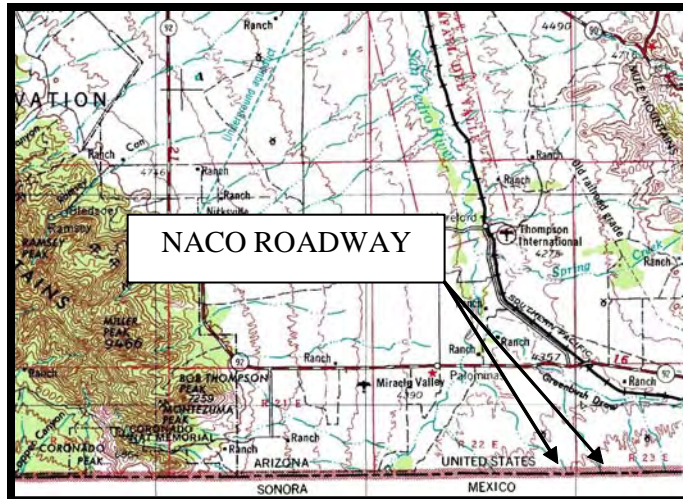
Project Summary

Real Estate: All work and access will be within the 60' Roosevelt Reservation, ROEs in place for access.

Environmental: Naco-Douglas Corridor Supplemental EA

Design: Permanent infrastructure for this phase of construction will be contained within the existing 60 feet reservation. Drainage structures need to include deterrents to alien traffic through the washes. The plans include roadway plan and profile sheets along with typical sections, storm water pollution prevention plan (SWPPP), construction details and complete bill of materials for military use.

Construction: National Guard or JTF-N forces will perform the construction work. Previous projects in this area have cost the PDT (b)(5) per mile of patrol road.



Vehicle Barriers

Project Description

There is a need for additional permanent and temporary vehicle barriers to be placed along the border at Nogales, Sonoita, Tucson, Casa Grande, and Ajo Stations. The Tucson Sector proposes to place vehicle barriers between these locations along a 50-mile corridor. Barriers are typically steel pipe arranged such that a (b) (7) foot section is supported at waist height.



Project Goals

Prevent vehicular traffic from crossing the border in remote locations. This will slow and deter the illegal and narcotic traffic using vehicles and serve as a force multiplier to the OBP.

Existing Infrastructure Include

Trails and dirt roads

Proposed Infrastructure To Be Constructed

Permanent and temporary vehicle barriers.

Project Summary

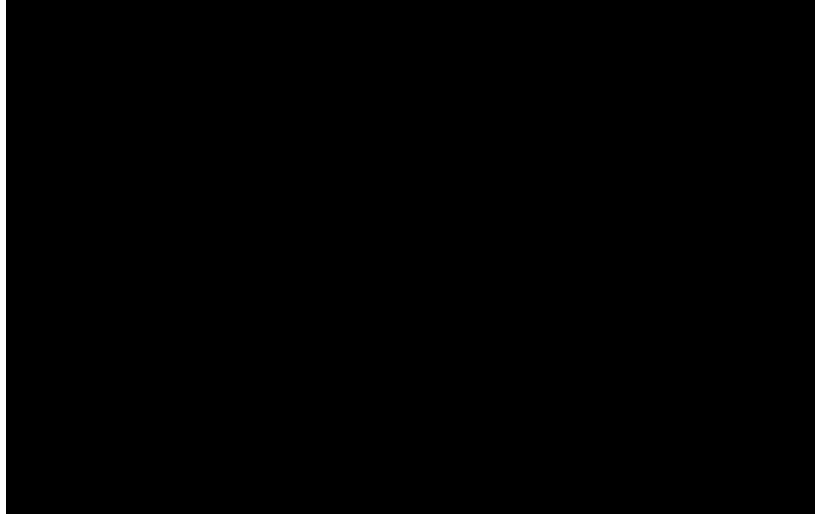
Real Estate: All work and access will be within the 60' Roosevelt Reservation.

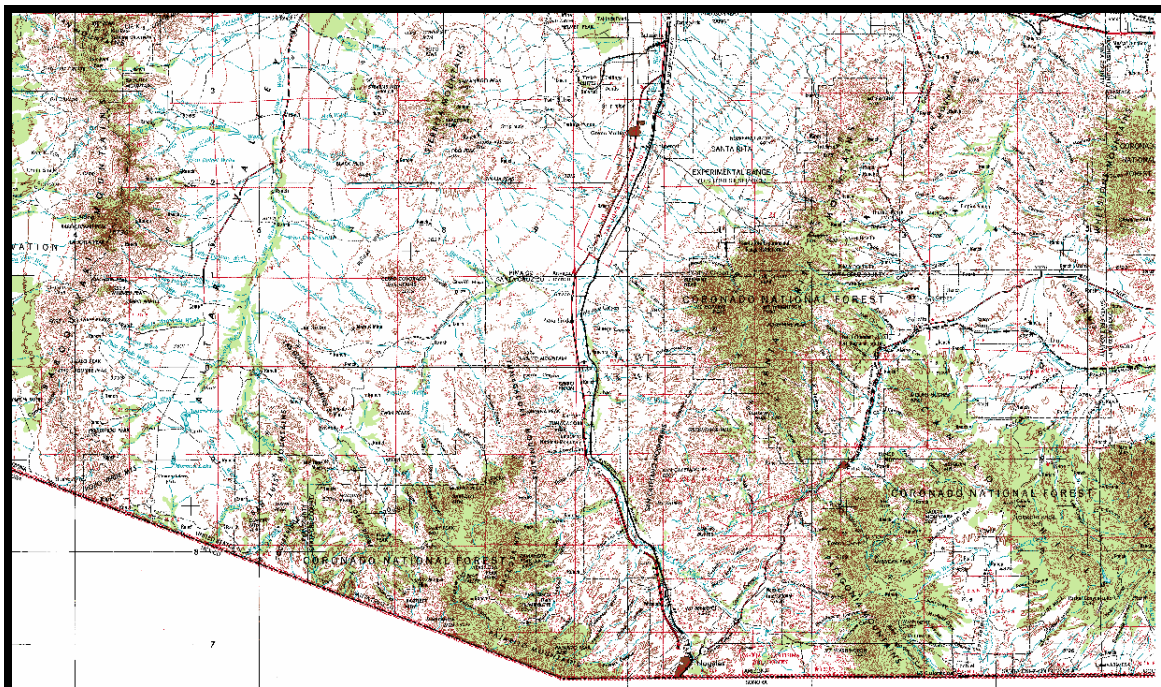
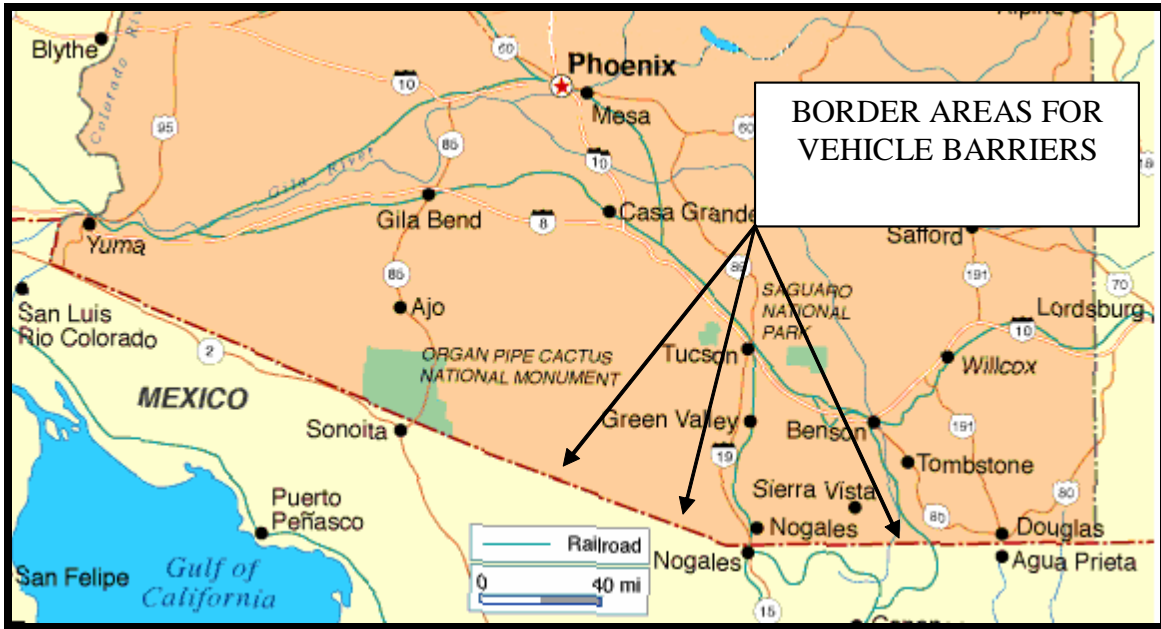
Environmental: NEPA documents have been prepared.

Design: Vehicle barriers using the typical temporary design placed in Organ Pipe, both permanent and temporary.

Construction: National Guard or JTF-6 forces will perform the construction work.

(b)(6)&(b)(7)(c)&(b)(7)(e)







U.S. Customs and Border Protection

OVERALL PROJECT DESCRIPTIONS FY'04

Douglas Roadways

Project Description

Construction of a total of 2-miles of patrol roads. Starting 5 miles east of the POE and extending 1 mile east to be constructed by troops sourced from JTF-North, and starting 7.1 miles west of the Douglas POE and continuing west 1 mile.



Project Goals

These patrol road projects are being constructed out from the POE's in either direction in relatively urbanized areas providing a force multiplier to the Office of Border Patrol. This project also improves access in securing the borders of the United States and restricting cross border access thereby: 1) reducing the influx of illegal alien traffic; 2) interdict narcotics traffic into the United States; and 3) assist the OBP in responding to migrant rescues.

Existing Infrastructure Include

Dirt roads

Proposed Infrastructure To Be Constructed

All weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; Low water crossings and vehicle barriers at known crossing points.



Project Summary

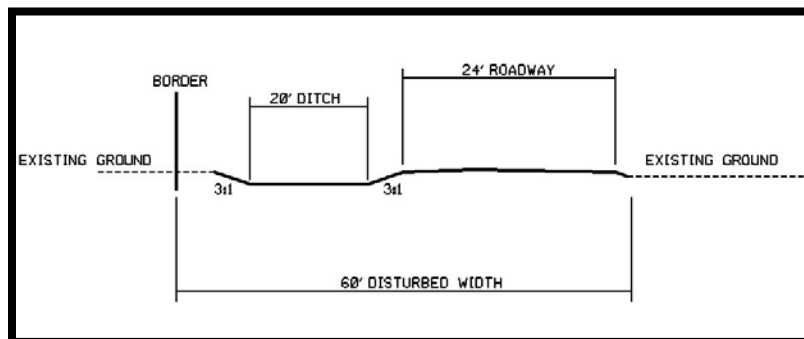
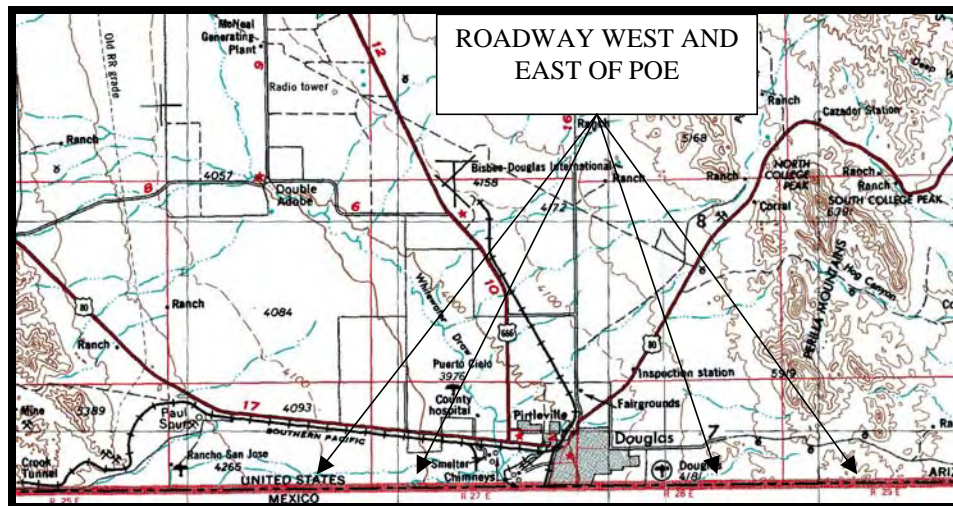
Real Estate: All work and access will be within the 60' Roosevelt Reservation; Rights of entry are obtained for access and temporary storage.

Environmental: All work is within the Supplemental Environmental Assessment for the Naco-Douglas Corridor

Design: Complete and pending funding. The design was prepared by Baker Engineering, Inc.

Construction: National Guard or JTF-6 forces will perform the construction work.

Previous projects in this area have cost the PDT (b)(5) per mile of patrol road.



Douglas, Lighting East and West of the POE**Project Description**

Beginning approximately 2-miles east and 1-mile west of the Douglas POE, the design will feature permanent lighting 1 mile in each direction (2 total miles). Use of the standard rural lighting design, previously completed, is anticipated for this project.

**Project Goals**

The proposed project will improve the capabilities of the OBP in securing the borders of the United States by illuminating this portion of the border, thereby: 1) reducing the influx of illegal alien traffic; and 2) help interdict narcotics traffic into the United States. This project serves as a force multiplier thereby freeing up resources for greater enforcement.

Existing Infrastructure Include

Dirt roads, aggregate roadway and some pedestrian fencing

Proposed Infrastructure To Be Constructed

2 miles of permanent lighting consisting of poles, connected by electrical cable, fitted with halogen stadium lights and fixtures, and energized by Arizona Public Service.

Project Summary

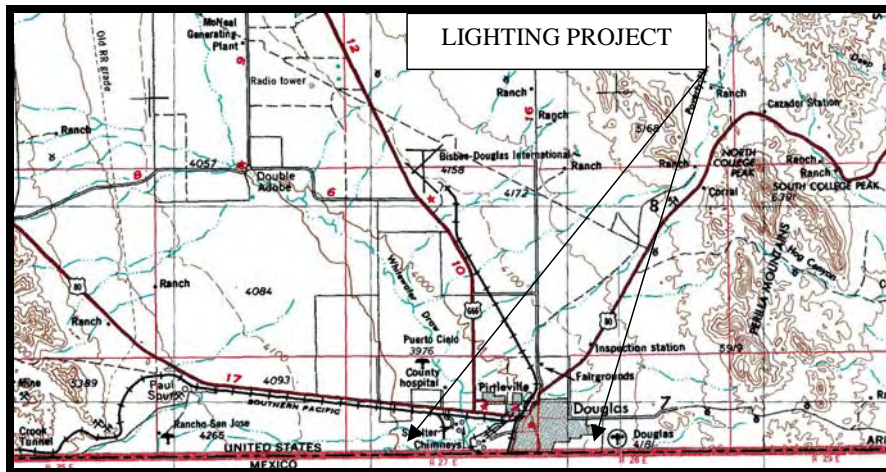
Real Estate: All work and access will be within the 60' Roosevelt Reservation

Environmental: All work is within the Supplemental Environmental Assessment for the Naco Corridor

Design: The standard design will be applied to the specific project location and adjusted as required to maintain a theoretical minimum light illumination of five (3) foot-candles at any given location between the border and the light installation location. This same lighting type has been successfully implemented in Naco Arizona during the 2004 deployments.

Construction: National Guard or JTF-6 forces will perform the construction work.

Previous lighting projects in this area have cost the PDT (b)(5) per mile of new lighting.



Douglas Whitewater Draw Bollard Fencing

Project Description

Bollard fence is proposed for those areas where drainage flow crosses the border. The Bollards allow flow but preclude pedestrian and vehicular traffic. This project will complete 0.4 miles of bollard fencing west of the Whitewater Draw Project



Project Goals

The proposed project will improve access and thereby: 1) reduce the influx of illegal alien (UDAs) traffic; 2) interdict narcotics traffic into the United States; and 3) assist the USBP in responding to migrant rescues and agents in danger. When this area is flooded agents must drive an additional 5 miles to access the other side of the watercourse.

Existing Infrastructure Include

Dirt roads and landing mat fence to the east

Proposed Infrastructure To Be Constructed

bollard and landing mat pedestrian fence and low water crossings along previously constructed patrol roads.

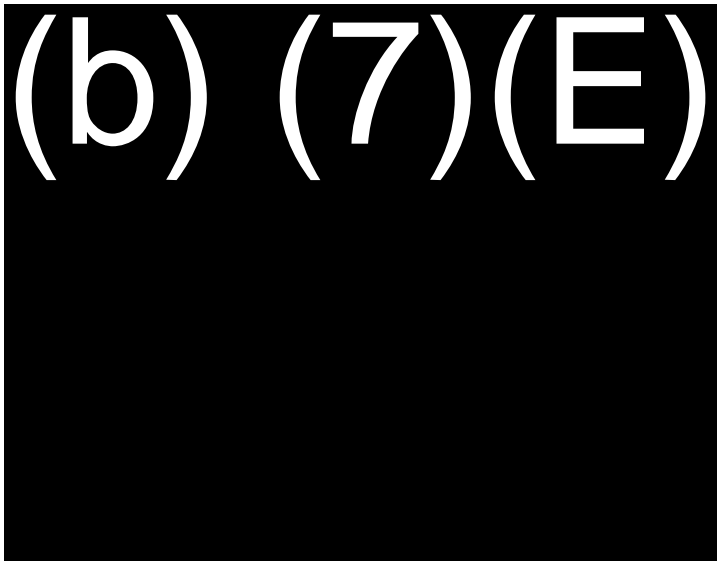
Project Summary

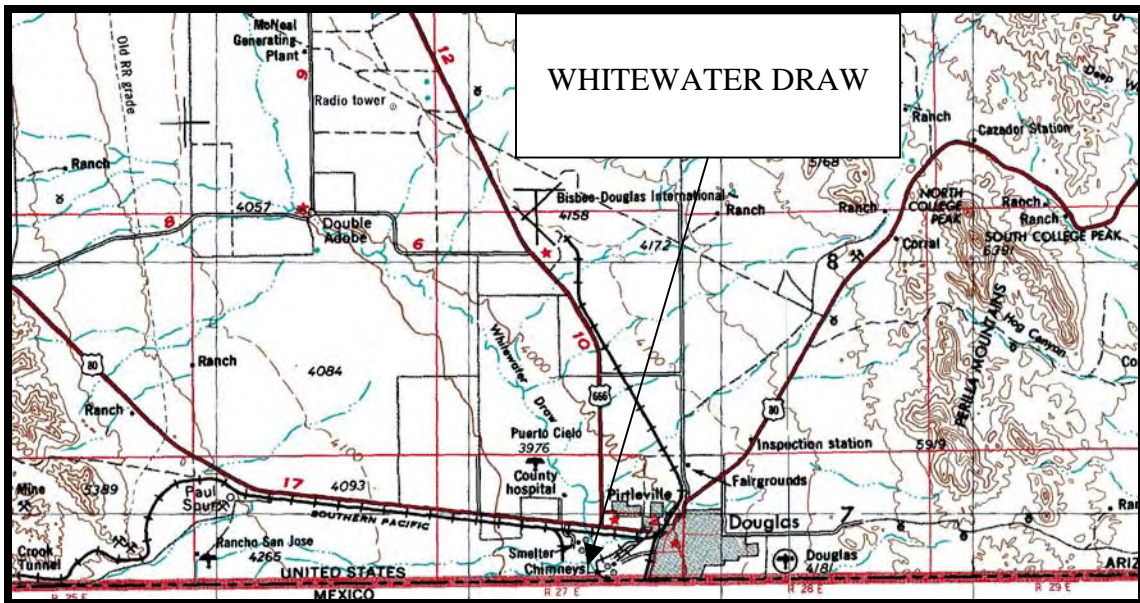
Real Estate: All work and access will be within the 60' Roosevelt Reservation.

Environmental: All work is within the Naco-Douglas Corridor EA

Design: Bollard fence design has been completed by Baker Engineering, inc.

Construction: National Guard will perform the construction work.





Naco, Lighting West of the POE**Project Description**

1 mile west of the Naco Port-of-Entry: design and construct permanent lighting 2 miles west. Use of the standard rural lighting design, previously completed, is anticipated for this project. Previous lighting projects in Naco have been constructed by JTF-N.

**Project Goals**

The proposed project will improve the capabilities of the OBP in securing the borders of the United States by illuminating this portion of the border, thereby: 1) reducing the influx of illegal alien traffic; and 2) help interdict narcotics traffic into the United States. This project serves as a force multiplier thereby freeing up resources for greater enforcement.

Existing Infrastructure Include

Dirt roadway
Some vehicle barriers, both permanent and temporary
Improved aggregate roadway

Proposed Infrastructure To Be Constructed

2 miles of permanent lighting consisting of poles, connect by electrical cable, fitted with halogen stadium lights and fixtures, and energized by Arizona Public Service.

Project Summary

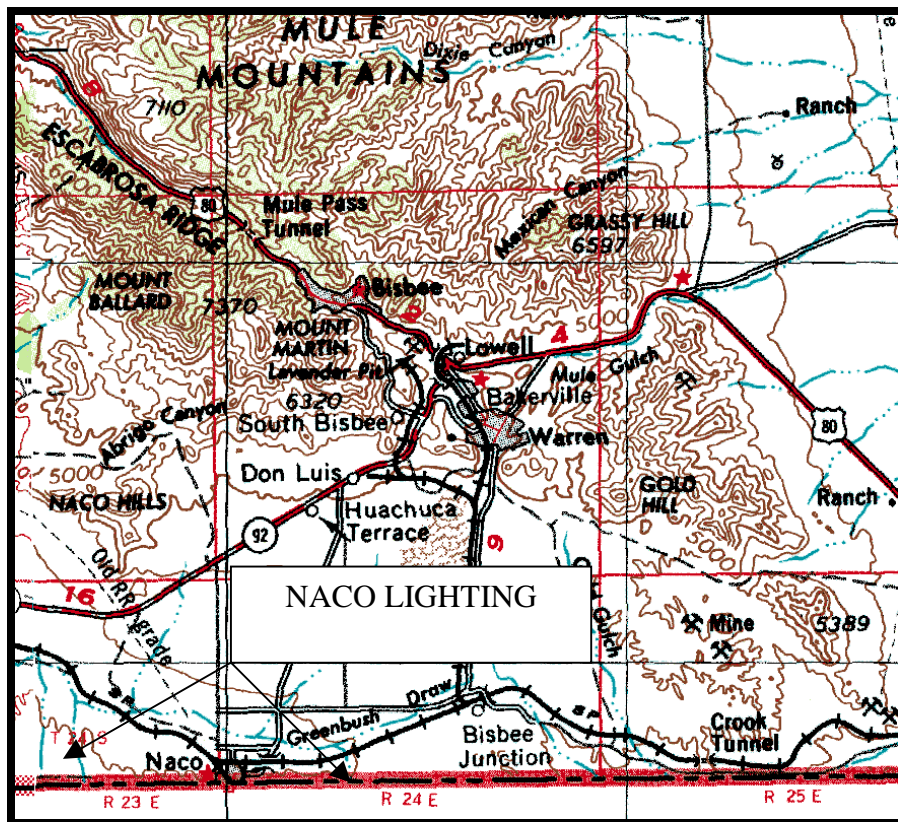
Real Estate: All work and access will be within the 60' Roosevelt Reservation

Environmental: Part of the Naco-Douglas Corridor Supplemental EA, final pending

Design: Use of the typical rural design modified for the terrain. Stadium lights will be used with similar ballast and lights as already used in Naco.

Construction: National Guard or JTF-6 forces will perform the construction work.

Previous lighting projects in this area have cost the PDT (b)(5) per mile of new lighting.



Sonoita Patrol Roads

Project Description

The USBP Sonoita Station is in need of access maintenance, primarily on U.S. Forest Service Lands. Construction in FY'05 of .5 miles improved existing roadway as part of a 25 mile all weather road improvement multi-year project. This will include coordination with effected agencies and compliance with the appropriate environmental documents. Construction is to take place through FY'10.



Project Goals

Improve access through a remote area to increase agent response to emergencies, and facilitate the apprehension of illegal aliens and interdict narcotics.

Existing Infrastructure Include

USFS roadways and trails.

Proposed Infrastructure To Be Constructed

All weather aggregate base patrol road and construction of drainage features where required.

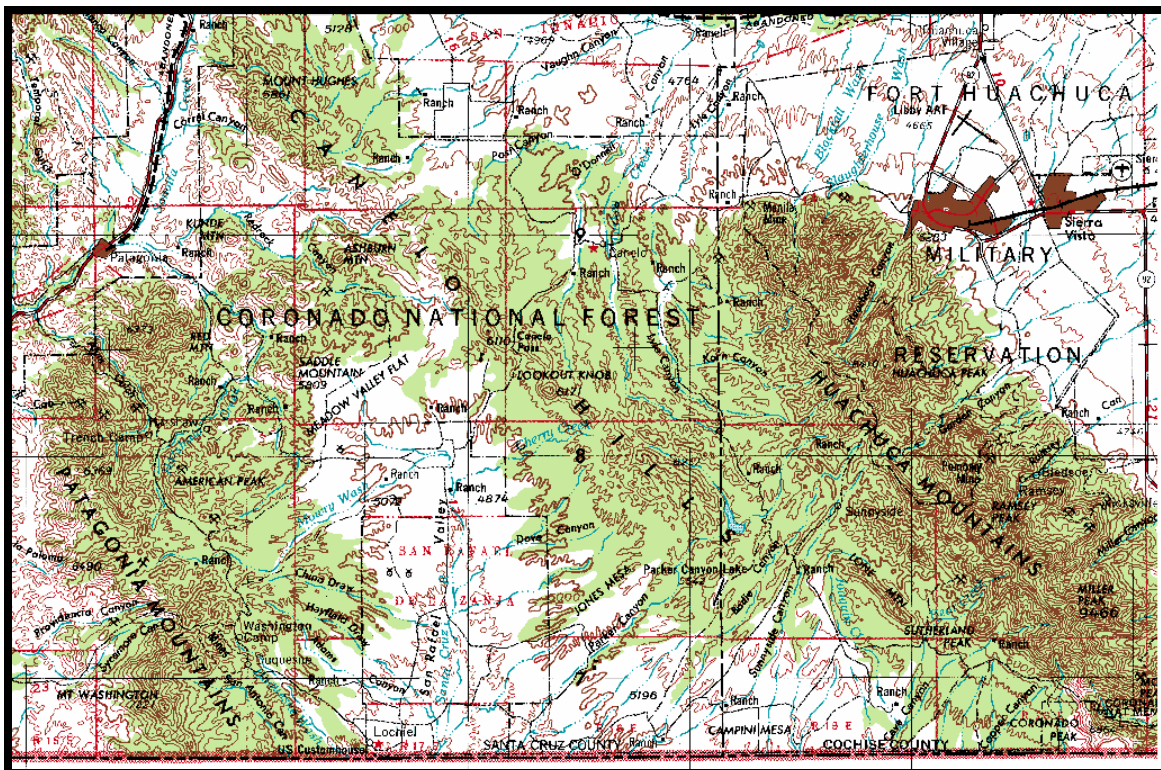
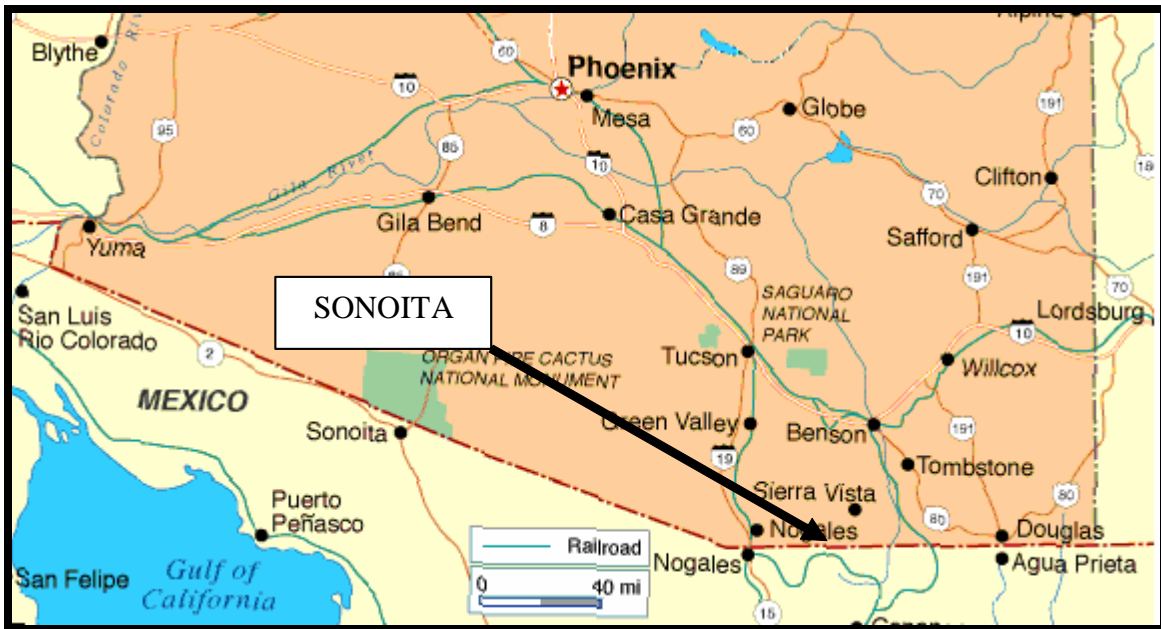
Project Summary

Real Estate: coordination with the US Forest Service and private property owners is required. Mostl work and access will be within the 60' Roosevelt Reservation; Rights of entry are obtained for access and temporary storage.

Environmental: This project will develop the required NEPA documents

Design: 5 miles of Roadway is under design with previous year funding. The roadway will be all weather aggregate base with associated drainage features. The exact location of the).5 miles to be constructed in FY'05 is yet to be determined.

Construction: National Guard or JTF-N forces will perform the construction work. Work schedule is dependant on the availability of sourced units. Previous projects in this area have cost the PDT (b)(5) per mile of patrol road.



Douglas, Primary Fencing**Project Description**

Construction of pedestrian fence and associated engineering (see map and typical detail). Engineer has located landing mat fence and bollard fencing and developed Bill-of-Materials (BOM) for deployments. FY'05 construction schedule is for 4 miles of landing mat fence depending on availability of sourced units.

**Project Goals**

Prevent illegal alien and smugglers from pedestrian and vehicular access across the border into the United States. Pedestrian fence is being constructed out from the POE's in either direction in relatively urbanized areas providing a force multiplier to the Office of Border Patrol.

Existing Infrastructure Include

IBWC barbed wire fence
Dirt roads
Some vehicle barriers

Proposed Infrastructure To Be Constructed

Pedestrian fence constructed of steel pipe placed into the ground, with pipe welded laterally and covered with surplus landing mat (steel sheets of corrugated steel). Previously this has been associated with concurrent roadway projects. This will be from Cattlemans Road west along the border.

Project Summary

Real Estate: All work and access will be within the 60' Roosevelt Reservation. Rights-of-Entry's (ROEs) will be obtained for access outside the 60'.

Environmental: part of the Naco-Douglas Supplemental EA

Design: This item will require compiling fencing details into prepackaged projects matching National Guard training mission guidelines and in compliance with environmental documents.



Construction: National Guard or JTF-6 forces will perform the construction work. Pending deployments. Replacement for dwindling supply of landing fence may be required in the near future.

(b) (7) (E)



(b) (7) (E)

Temporary Vehicle Barriers

Project Description

There is a need for additional permanent and temporary vehicle barriers to be placed along the border at Nogales, Sonoita, Tucson, Casa Grande, and Ajo Stations. The Tucson Sector proposes to place vehicle barriers between these locations along a 50-mile corridor. Barriers are typically steel pipe arranged such that a ^{(b) (7)} foot section is supported at waist height.



Project Goals

Prevent vehicular traffic from crossing the border in remote locations. This will slow and deter the illegal and narcotic traffic using vehicles and serve as a force multiplier to the OBP.

Existing Infrastructure Include

Trails and dirt roads

Proposed Infrastructure To Be Constructed

Permanent and temporary vehicle barriers.

Project Summary

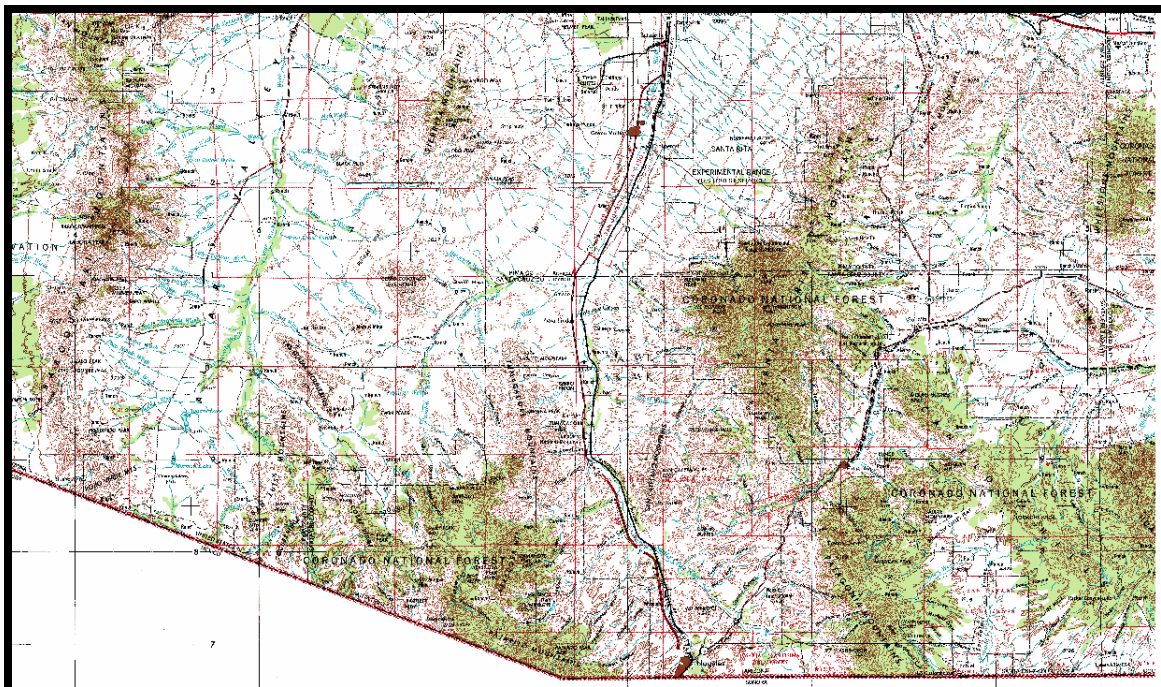
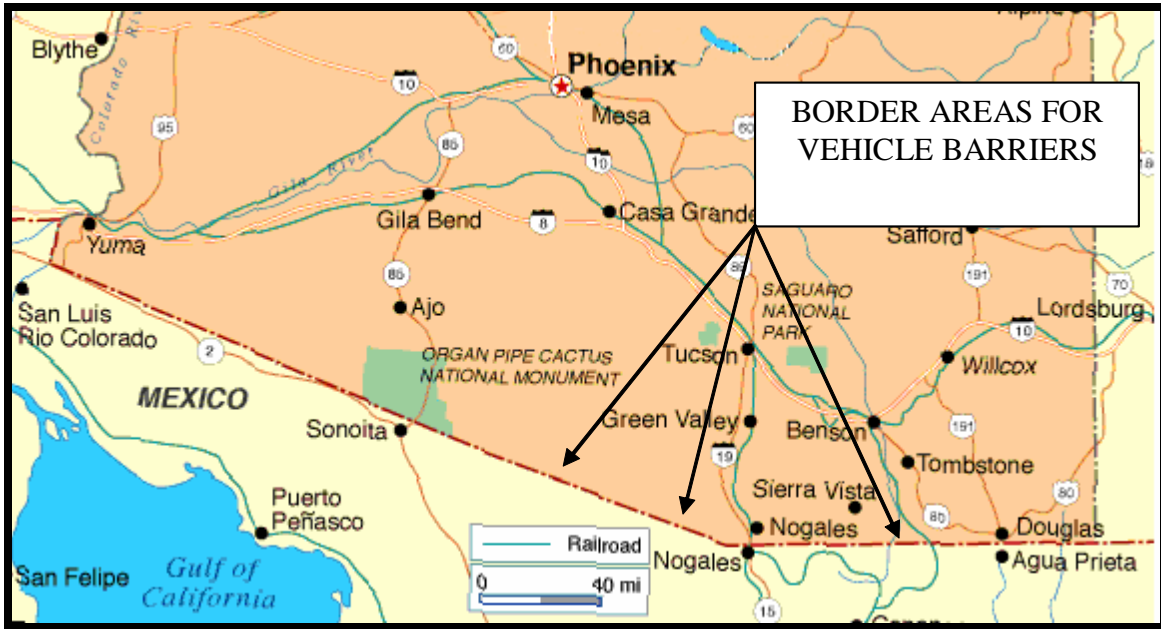
Real Estate: All work and access will be within the 60' Roosevelt Reservation.

Environmental: NEPA documents have been prepared.

Design: Vehicle barriers using the typical temporary design placed in Organ Pipe, both permanent and temporary.

Construction: National Guard or JTF-6 forces will perform the construction work.

(b)(6)&(b)(7)(c)&(b)(7)(e)



Nogales, 2 Miles Roadway, Sta 10+00E to Sta 115+00E

Project Description

Beginning approximately 1000 feet east of the Nogales port-of-entry and continuing approximately 2 miles further east is a stretch of marginal and non-existent border road. The project includes numerous drainage crossings and primary fencing. FY'05 funding will provide construction support for this project.



Project Goals

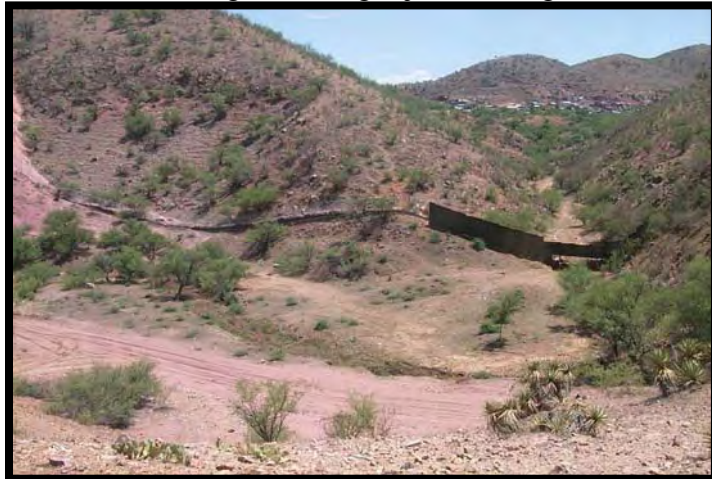
The proposed project will improve access of the USBP in securing the borders of the United States by improving access and thereby: 1) reduce the influx of illegal alien traffic; 2) interdict narcotics traffic into the United States; and 3) assist OBP in responding to migrant rescues. Access is critical as this area has been the site of rock throwing involving injuries to Agents.

Existing Infrastructure Include

- Dirt roadway
- Some primary fence

Proposed Infrastructure To Be Constructed

Two miles of roadway construction starting 1000 feet east of the POE and continuing 2 miles to the east; All-weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; and Low water crossings.



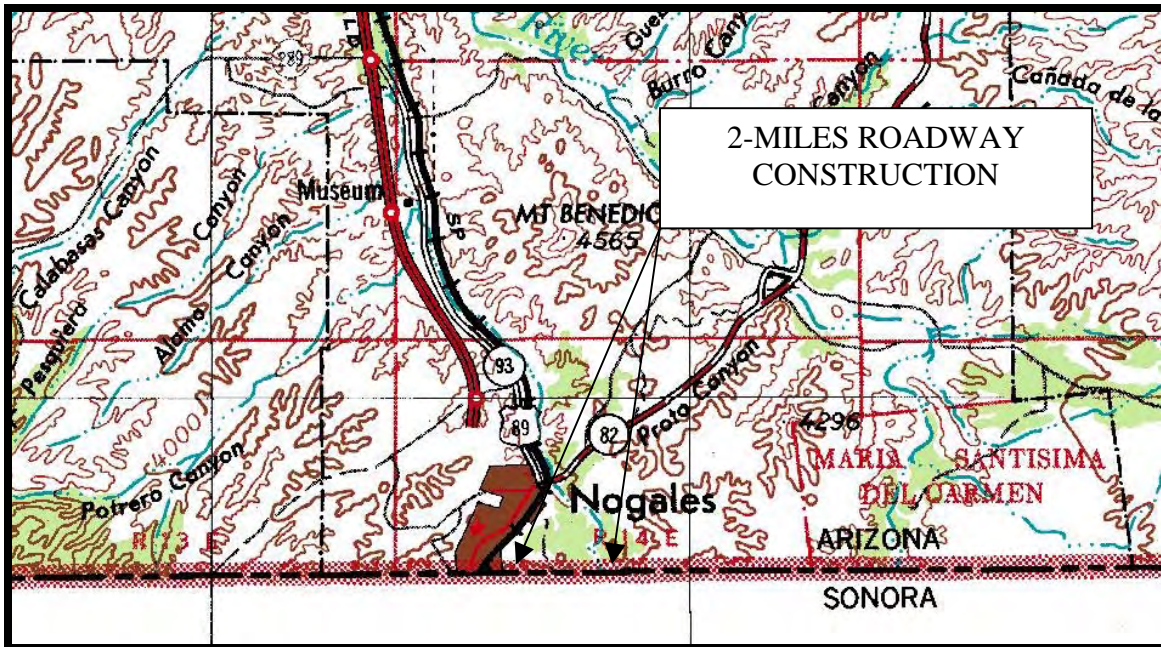
Project Summary

Real Estate: some work and access will be within the 60' Roosevelt Reservation, ROEs for access must be prepared, extensive easements required due to terrain.

Environmental: Nogales Infrastructure EA, Final Pending

Design: Permanent infrastructure for this phase of construction will be contained within the existing 60 feet reservation for the first 1/2 mile. The plans include proposed roadway plan and profile sheets along with typical sections, storm water pollution prevention plan (SWPPP), construction details and complete bill of materials for military use.

Construction: National Guard or JTF-n forces will perform the construction work.



Nogales Schematic Design**Project Description**

Complete the 15% schematic design plans will be developed for approximately four (4) total linear miles, two (2) miles east of Sta. 115+00E and two (2) miles west of the Nogales Port-of-Entry. Anticipated Construction of 4 linear miles of roadway though FY'10.

**Project Goals**

Preliminary design of proposed facilities and their associated environmental documents. Ultimately, final designs and NEPA documents will be developed from this project.

Existing Infrastructure Include

Dirt roadways, some lighting and primary fence

Proposed Infrastructure To Be Constructed and Associated Documents

Schematic Design and NEPA documents for roadways, lighting and primary fencing. All-weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; and Low water crossings. Permanent lighting consisting of poles, connected by electrical cable, fitted with halogen stadium lights and fixtures, and energized by Arizona Public Service.

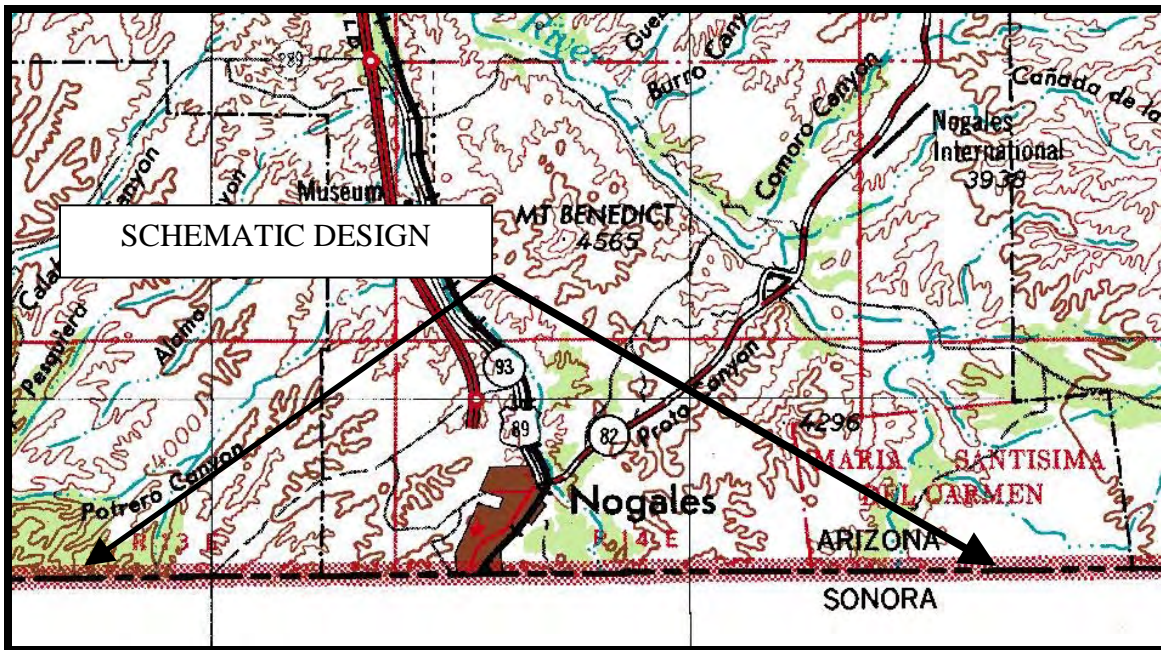
Project Summary

Real Estate: All work and access will be within the 60' Roosevelt Reservation; areas outside the 60' will require ROEs

Environmental: EA will be performed under this project

Design: The engineer will develop and submit to the PDT for review and comments 15% plans that include: Final geotechnical investigation providing recommendations for roadway pavement sections, erosion control measures, and slope protection measures required for construction (see geotechnical scope for more detail); Preliminary horizontal and vertical geometry for a primary all-weather road and drag road; Preliminary bollard fence placement locations; Development of typical section(s); and Preliminary earthwork quantities.

Construction: National Guard or JTF-N forces will perform the construction work.



Douglas Roadways

Project Description

Construction of a total of 1.5-miles of patrol roads. Starting 6 miles east of the POE and extending 0.5 miles east to be constructed by troops sourced from JTF-North, and starting 8.1 miles west of the Douglas POE continuing west 1 mile to be constructed by the National Gaurd.



Project Goals

These patrol road projects are being constructed out from the POE's in either direction in relatively urbanized areas providing a force multiplier to the Office of Border Patrol. This project also improves access in securing the borders of the United States and restricting cross border access thereby: 1) reducing the influx of illegal alien traffic; 2) interdict narcotics traffic into the United States; and 3) assist the OBP in responding to migrant rescues.

Existing Infrastructure Include

Dirt roads

Proposed Infrastructure To Be Constructed

All weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; Low water crossings and vehicle barriers at known crossing points.



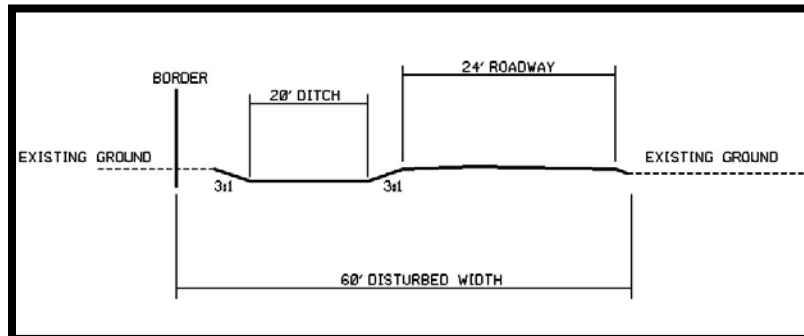
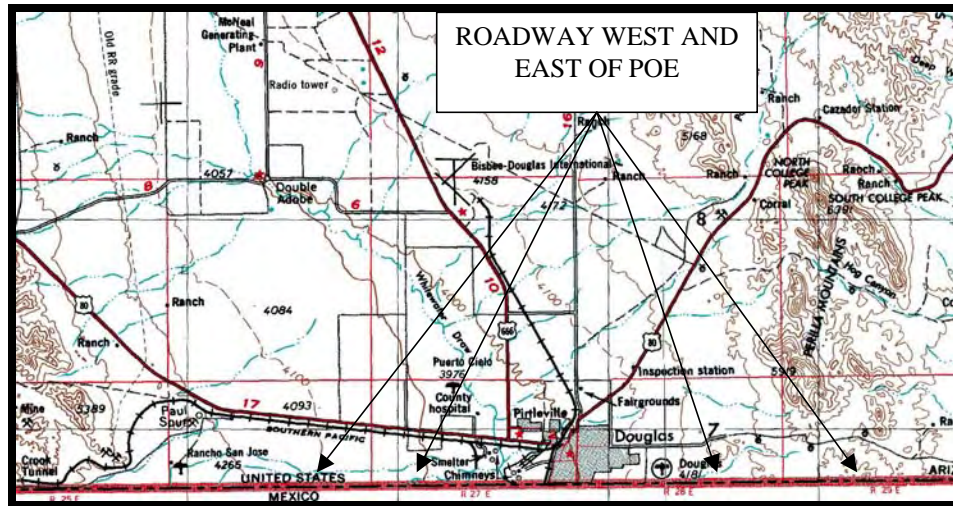
Project Summary

Real Estate: All work and access will be within the 60' Roosevelt Reservation; Rights of entry are obtained for access and temporary storage.

Environmental: All work is within the Supplemental Environmental Assessment for the Naco-Douglas Corridor

Design: Complete and pending funding. The design was prepared by Baker Engineering, Inc.

Construction: National Guard or JTF-6 forces will perform the construction work. Previous projects in this area have cost the PDT (b)(5) per mile of patrol road.



Douglas, International Ditch

Project Description

Approximately 1.3 miles of existing unstable earthen ditch will be replaced with concrete lined channel on the east side of the Port-of-Entry in Douglas.

Project Goals

Provide easier access to the channel and culvert system to apprehend UDAs and interdict narcotics, prevent further erosion and damage to the adjacent roadway and border fence.



Existing Infrastructure Include

Earthen channel and reinforced concrete box culvert under the POE.

Proposed Infrastructure To Be Constructed

1.3 miles of concrete channel and potential installation of lights

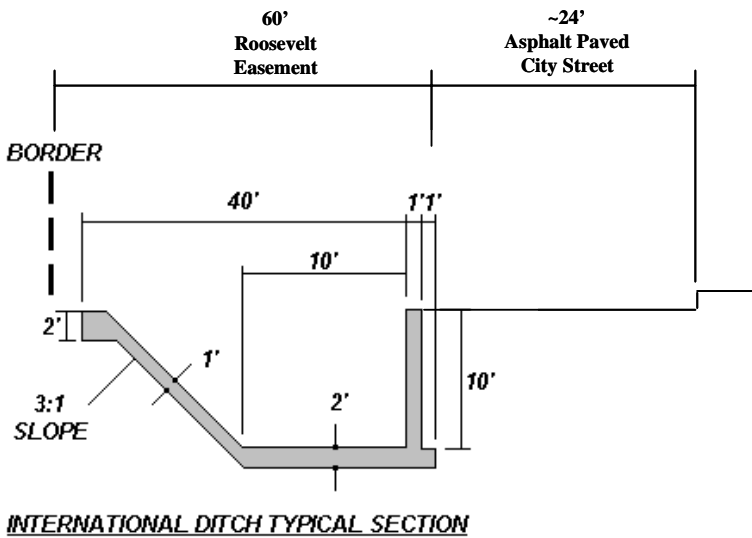
Project Summary

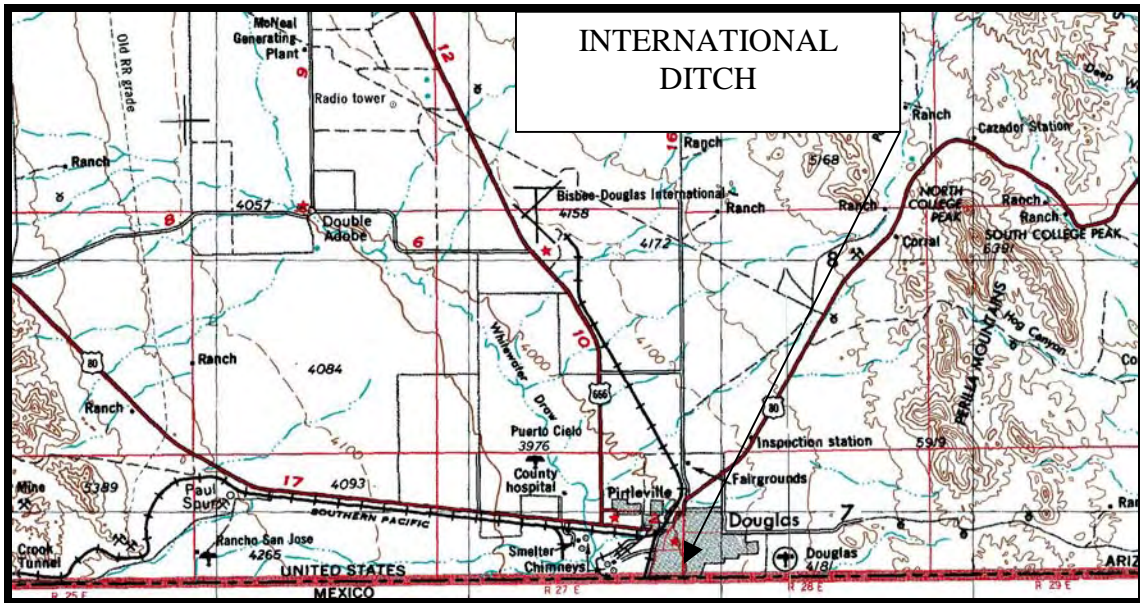
Real Estate: All work and access will be within the 60' Roosevelt Reservation or the adjacent public roadway

Environmental: covered under the Naco-Douglas Corridor EA.

Design: Currently under design by Michael Baker, Jr. Engineering, inc. The channel design will be for the largest frequency storm that the typical section provided by the Border Patrol, for security, is capable of conveying. Design will include plans, specification, and cost estimate for military construction.

Construction: National Guard or JTF-N forces will perform the construction work.





Naco, Roadways East and West of POE

Project Description

A total of 1 mile of roadway with associated pedestrian fence and vehicle barriers beginning approximately 4.5 miles west of the Naco port-of-entry and continuing for 0.5 mile west, and 3.5 miles east of the POE continuing east 0.5 miles.



Project Goals

These patrol road projects are being constructed out from the POE's in either direction in relatively urbanized areas providing a force multiplier to the Office of Border Patrol. This project also improves access in securing the borders of the United States and restricting cross border access thereby: 1) reducing the influx of illegal alien traffic; 2) interdict narcotics traffic into the United States; and 3) assist the OBP in responding to migrant rescues.

Existing Infrastructure Include

Dirt roadway
Some vehicle barriers, both permanent and temporary

Proposed Infrastructure To Be Constructed

Construction of one mile of patrol road. All weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; conversion of vehicle barrier to fence; and Low water crossings.

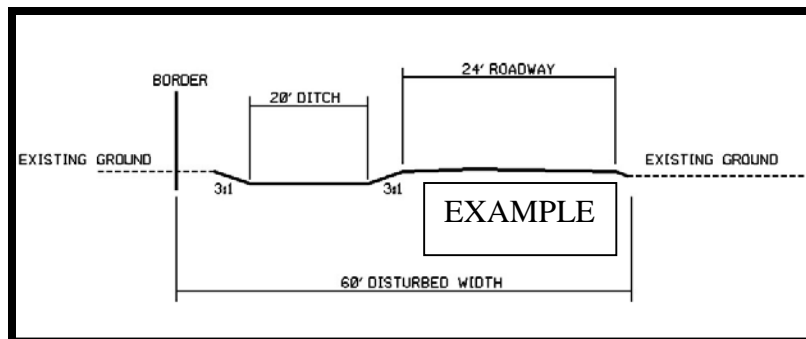
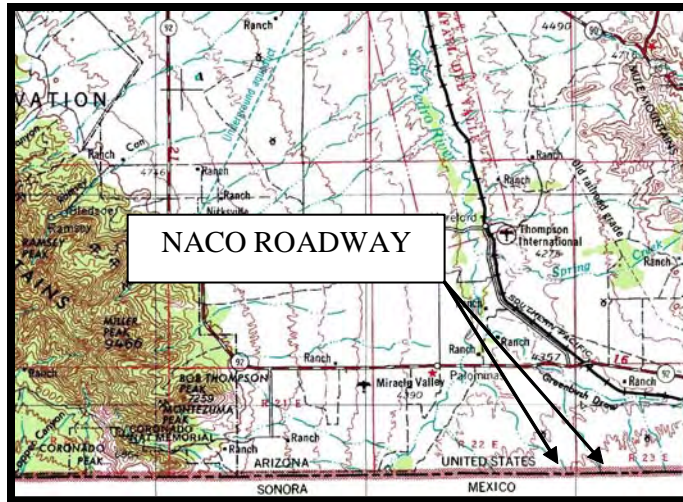
Project Summary

Real Estate: All work and access will be within the 60' Roosevelt Reservation, ROEs in place for access.

Environmental: Naco-Douglas Corridor Supplemental EA

Design: Permanent infrastructure for this phase of construction will be contained within the existing 60 feet reservation. Drainage structures need to include deterrents to alien traffic through the washes. The plans include roadway plan and profile sheets along with typical sections, storm water pollution prevention plan (SWPPP), construction details and complete bill of materials for military use.

Construction: National Guard or JTF-N forces will perform the construction work. Previous projects in this area have cost the PDT (b)(5) per mile of patrol road.



Douglas Roadways**Project Description**

Construction of a total of 16-miles of roadway with associated pedestrian fence and vehicle barriers beginning approximately 7.1 miles west of the Douglas POE and continuing west, and beginning at station 70-East continuing east of the POE.

**Project Goals**

Improve access for United States Border Patrol (USBP) in securing the borders of the United States and restricting cross border access thereby: 1) reducing the influx of illegal alien (UDAs) traffic; 2) interdict narcotics traffic into the United States; and 3) assist the USBP in responding to migrant rescues.

Existing Infrastructure Include

Dirt roads

Proposed Infrastructure To Be Constructed

All weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; Low water crossings and vehicle barriers at known crossing points.

**Project Summary**

Real Estate: All work and access will be within the 60' Roosevelt Reservation; Rights of entry are obtained for access and temporary storage.

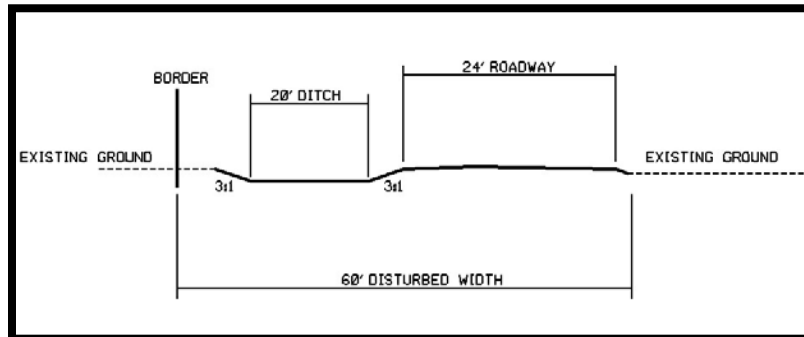
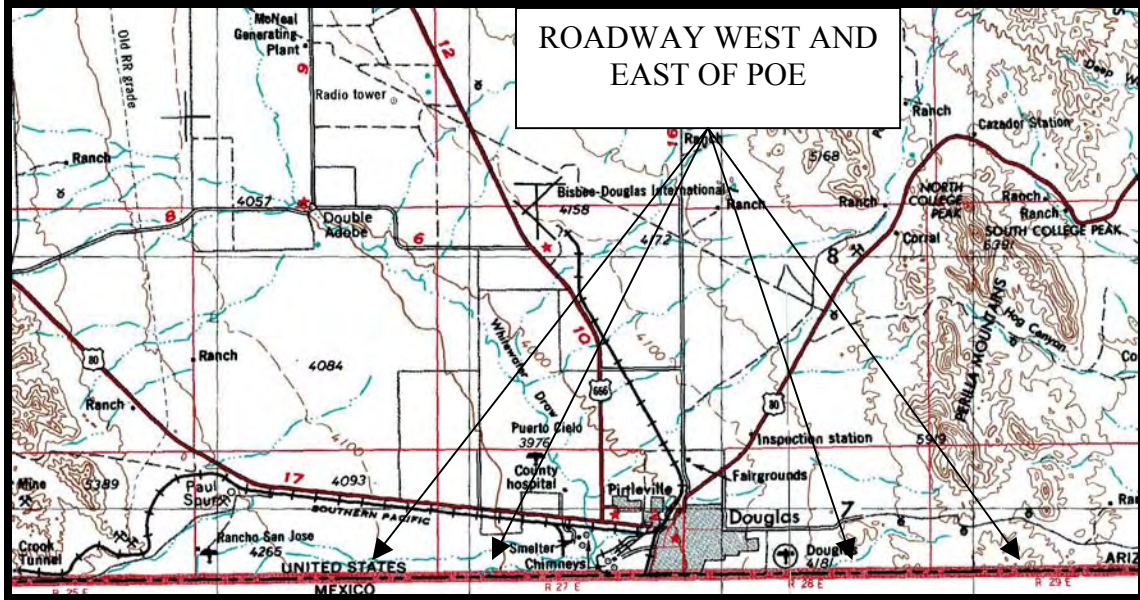
Environmental: All work is within the Supplemental Environmental Assessment for the Naco-Douglas Corridor

Design: Aerial data has been developed and schematic design completed. Project will be packaged into multiple construction opportunities geared around the Mission Essential Task List (METL) tasks for military training. All designs shall be provided with anticipation that military construction personnel will be utilized. Permanent infrastructure for this phase of construction will be contained within the existing 60 feet Roosevelt reservation. Drainage structures need to include deterrents to alien traffic without subsurface excavation exceeding 3 feet. The plans shall include proposed roadway plan

and profile with typical sections, storm water pollution prevention plan (SWPPP), construction details and a complete bill of materials.

Construction: National Guard or JTF-6 forces will perform the construction work. Deployments by the National Guard to construct this project are anticipated beginning June 2004.





Douglas, Erosion Repair**Project Description**

Douglas Station, Erosion Control and Drainage Structure Repair/Culvert Replacement– Beginning approximately 3 miles west of the Douglas port-of-entry (POE) and continuing approximately 3.5 miles further west.

Project Goals

The proposed project will repair damage to the infrastructure and improve access for the USBP in securing the borders of the United States, thereby: 1) reducing the influx of illegal alien (UDAs) traffic; 2) interdict narcotics traffic into the United States; and 3) assist the USBP in responding to migrant rescues and agents in danger.

Existing Infrastructure Include

Dirt roads
All weather roads

Proposed Infrastructure to be Constructed

Channel construction; Low water crossing and Drainage channel repair

Project Summary

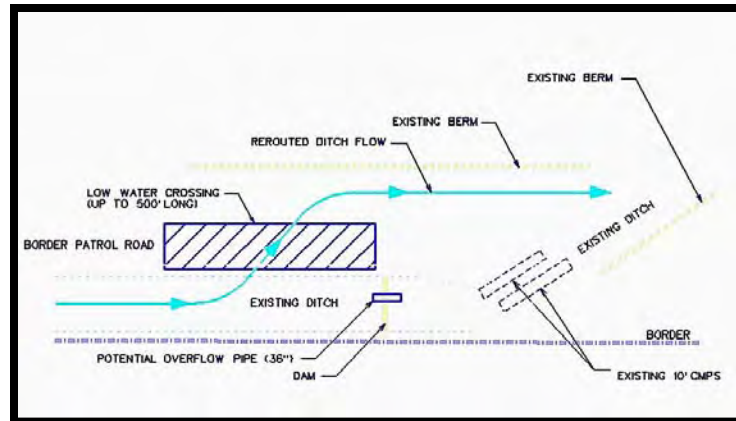
Real Estate: All work and access will be within the 60' Roosevelt Reservation; Rights of entry have been obtained for access and temporary storage.

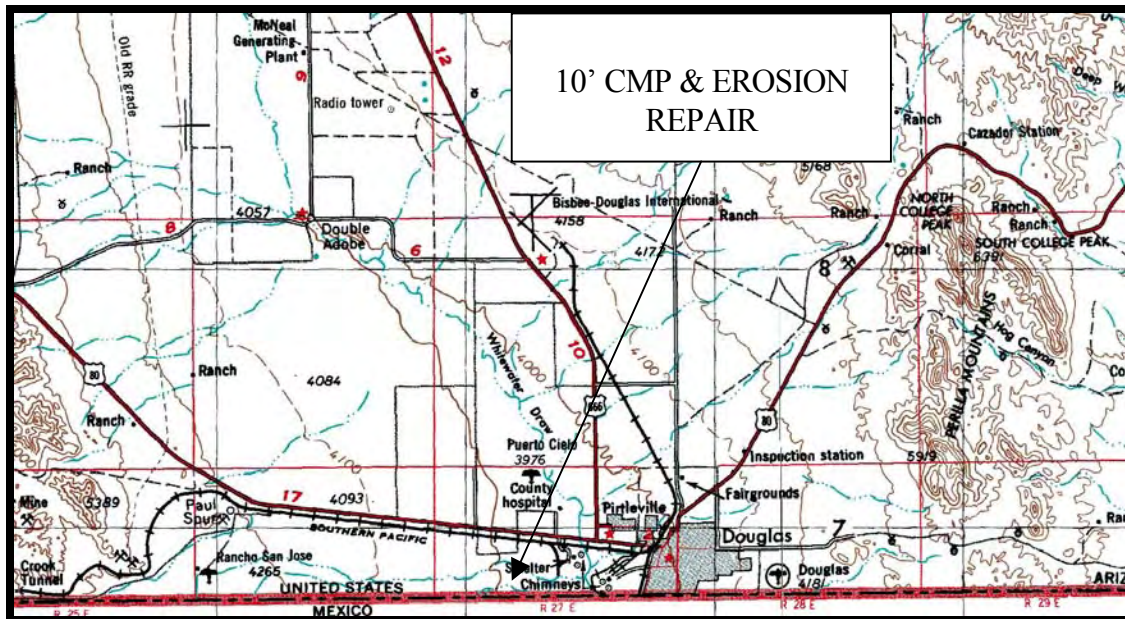
Environmental: All work is within the Naco-Douglas Corridor EA.

Design: construction was completed in July 2001 on a roadway and drainage project. During the monsoons of 2001, portions of the installed erosion control failed and the functionality of a pair of 10 foot corrugated metal pipes became questionable.

Construction: National Guard or JTF-6 forces will perform the construction work.

(b)(6)&(b)(7)(c)&(b)(7)(e)





Douglas, International Ditch

Project Description

Approximately 1.3 miles of existing unstable earthen ditch will be replaced with concrete lined channel on the east side of the Port-of-Entry in Douglas.

Project Goals

Provide easier access to the channel and culvert system to apprehend UDAs and interdict narcotics, prevent further erosion and damage to the adjacent roadway and border fence.



Existing Infrastructure Include

Earthen channel and reinforced concrete box culvert under the POE.

Proposed Infrastructure To Be Constructed

1.3 miles of concrete channel and potential installation of lights

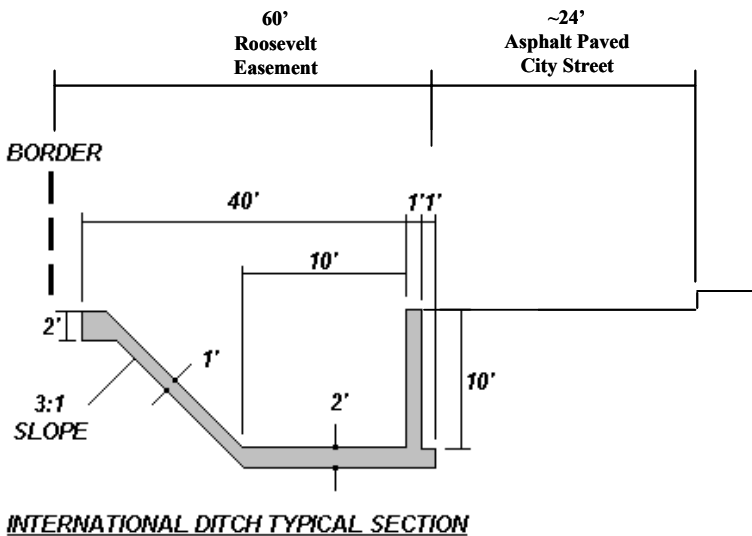
Project Summary

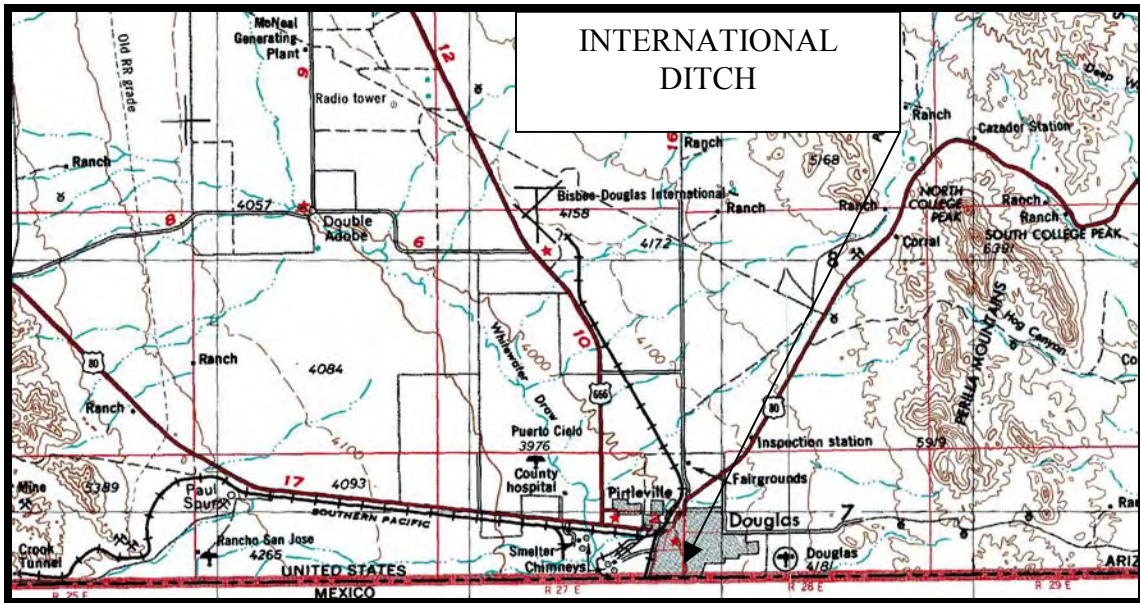
Real Estate: All work and access will be within the 60' Roosevelt Reservation or the adjacent public roadway

Environmental: covered under the Naco-Douglas Corridor EA.

Design: Detailed hydrology and hydraulic modeling of the channel will be generated. The channel design will be for the largest frequency storm that the typical section provided by the Border Patrol, for security, is capable of conveying. Design will include plans, specification, and cost estimate for military construction.

Construction: National Guard or JTF-6 forces will perform the construction work.





Douglas, Lighting East and West of the POE

Project Description

Beginning approximately 2-miles east and 1-mile west of the Douglas POE, the design will feature permanent lighting 5-miles in each direction. Use of the standard rural lighting design, previously completed, is anticipated for this project.



Project Goals

The proposed project will improve the capabilities of the USBP in securing the borders of the United States by illuminating this portion of the border, thereby: 1) reducing the influx of illegal alien (UDAs) traffic; and 2) help interdict narcotics traffic into the United States.

Existing Infrastructure Include

Dirt roads, aggregate roadway and some pedestrian fencing

Proposed Infrastructure To Be Constructed

10 miles of permanent lighting consisting of poles, connected by electrical cable, fitted with halogen stadium lights and fixtures, and energized by Arizona Public Service.

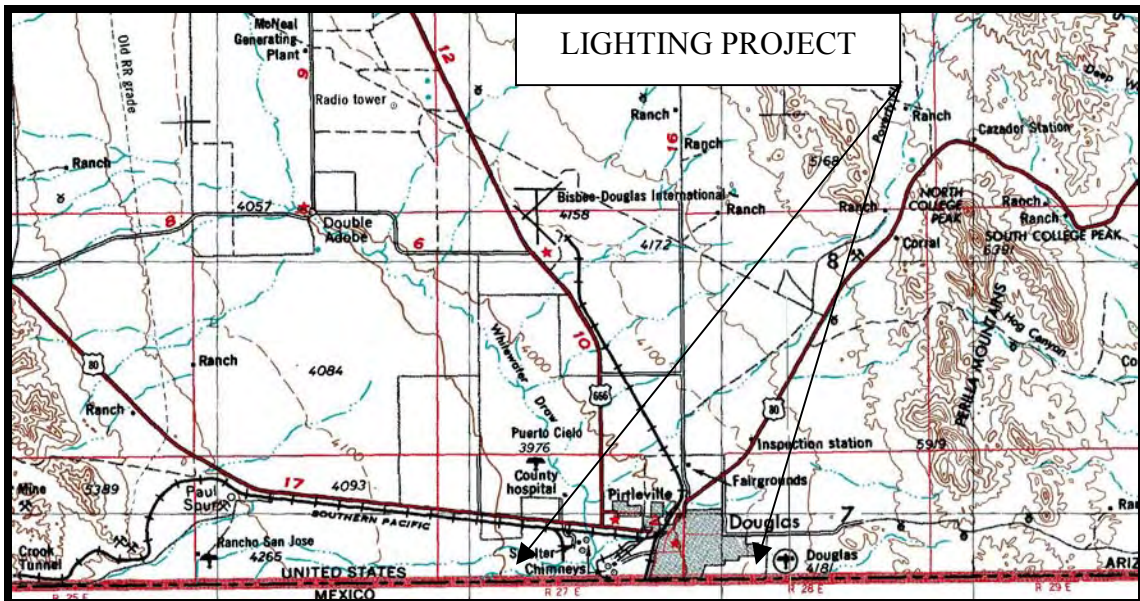
Project Summary

Real Estate: All work and access will be within the 60' Roosevelt Reservation

Environmental: All work is within the Supplemental Environmental Assessment for the Naco Corridor

Design: The standard design will be applied to the specific project location and adjusted as required to maintain a theoretical minimum light illumination of five (5) foot-candles at any given location between the border and the light installation location. Engineering level mapping will be compiled for the design. The design will be coordinated with the local electric power provider to facilitate primary and secondary power installation requirements for the project. Any special conditions and features that will require deviation from the standard design, summarized in a Field Review Summary delivered to the PDT for review. The 100% plans will include: 1) plans, 2) bill of materials which will include an abbreviated specification to be utilized in construction material and equipment procurement, and 3) Notice of Intent NPDES application with no fee. All designs shall be provided with anticipation that military construction personnel will be utilized.

Construction: National Guard or JTF-6 forces will perform the construction work.



Douglas Whitewater Draw

Project Description

Box culvert and associated roadway at Whitewater Draw in Douglas Arizona. Bollard fence is proposed for the channel area to allow water through.



Project Goals

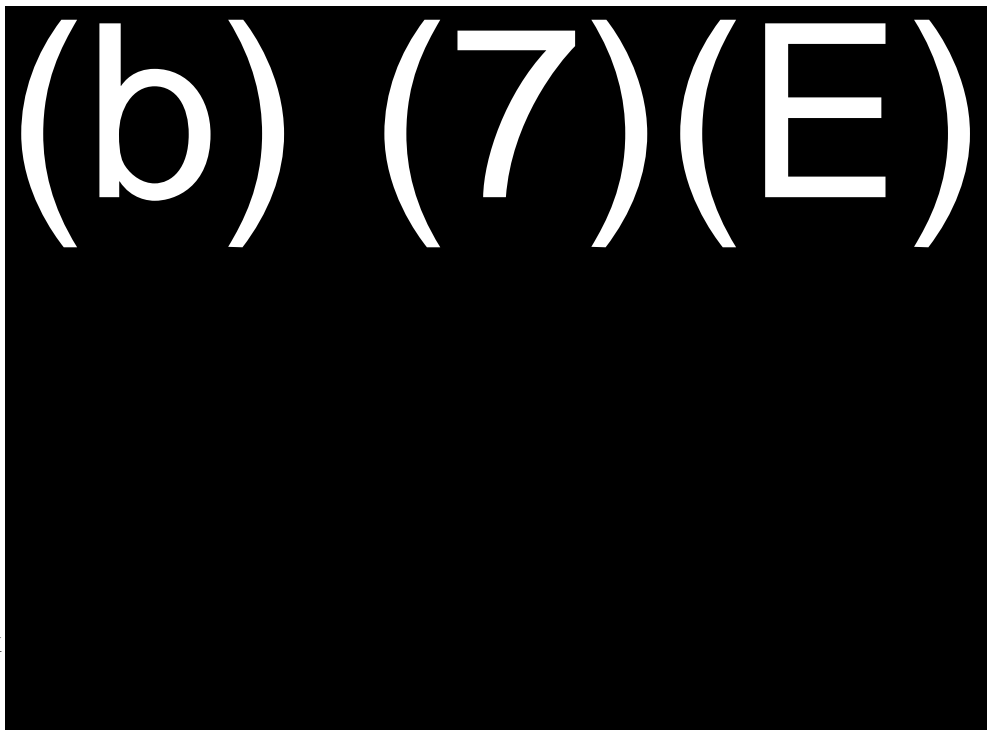
The proposed project will improve access and thereby: 1) reduce the influx of illegal alien (UDAs) traffic; 2) interdict narcotics traffic into the United States; and 3) assist the USBP in responding to migrant rescues and agents in danger. When this area is flooded agents must drive an additional 5 miles to access the other side of the watercourse.

Existing Infrastructure Include

Dirt roads and landing mat fence to the east

Proposed Infrastructure To Be Constructed

All weather roads consisting of compacted aggregate base course except in the box culvert area where the wearing surface will be asphaltic concrete, Precast Reinforced Concrete Box Culvert (RCBC), bollard and landing mat pedestrian fence and low water crossings.



Project Summary

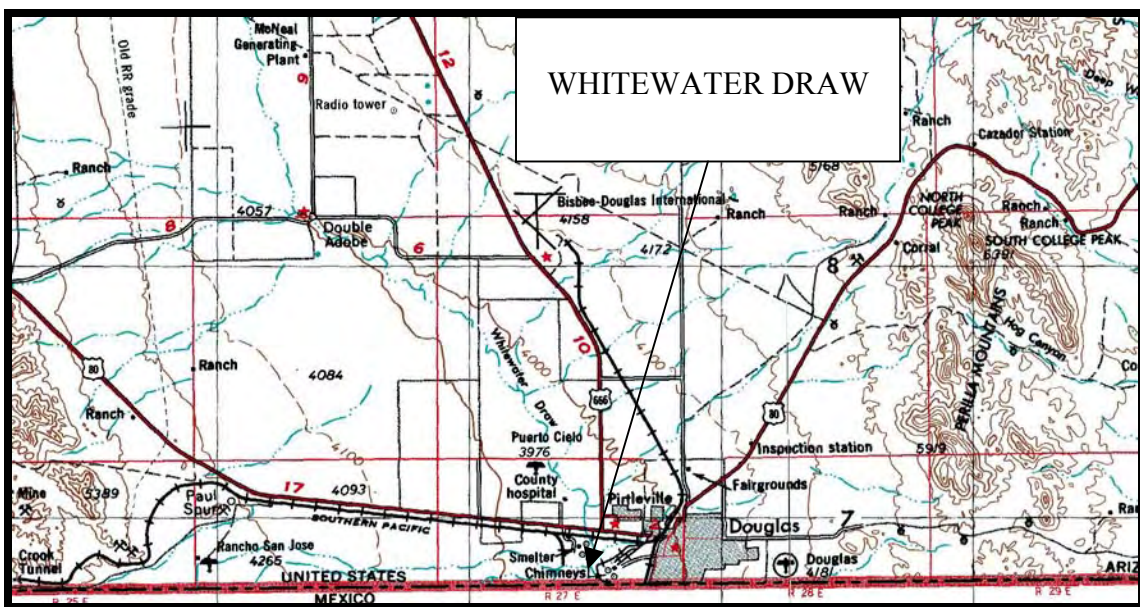
Real Estate: All work and access will be within the 60'

Roosevelt Reservation; Rights of entry have been obtained for access and temporary storage from Phelps Dodge Corp.

Environmental: All work is within the Naco-Douglas Corridor EA. 404 permit under review by USACE.

Design: RCBC placed with a 32-ton crane. A roadway section built up on geotextile will be constructed in the area of Whitewater Draw. The 100-year event will flow over the structure. Asphaltic concrete will provide stability to the embankment and a wearing surface.

Construction: National Guard will perform the construction work and are tentatively scheduled for June 2004 deployment.



Naco, 4 Miles Roadway**Project Description**

Beginning approximately 1 mile east and 1 mile west of the Naco Port-of-Entry: construction of two miles east and two miles west of all weather roadway. Project on the east side of the POE has been constructed. Fencing associated with the roadway remains to be completed. Four miles of roadway funded in FY'03 at (b)(5) vehicle barrier to landing mat fence at (b)(5) and pedestrian fence at (b)(5). Additionally extension of this project (see Naco 10-Mile Roadway TCANCO008) in FY'04 included 2 miles each side of POE.

**Project Goals**

The proposed project will improve access for the USBP in securing the borders of the United States by increasing access and thereby: 1) reducing the influx of illegal alien (UDAs) traffic; 2) interdict narcotics traffic into the United States; and 3) assist the USBP in responding to migrant rescues and agents in distress. Reductions in wear on vehicles and reduced maintenance costs are also anticipated.

Existing Infrastructure Include

Dirt roadway
Some vehicle barriers, both permanent and temporary

Proposed Infrastructure To Be Constructed

Beginning approximately 1 mile east and 1 mile west of the Naco Port-of-Entry: construction of two miles east and two miles west of all weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; conversion of vehicle barrier to fence; and Low water crossings.

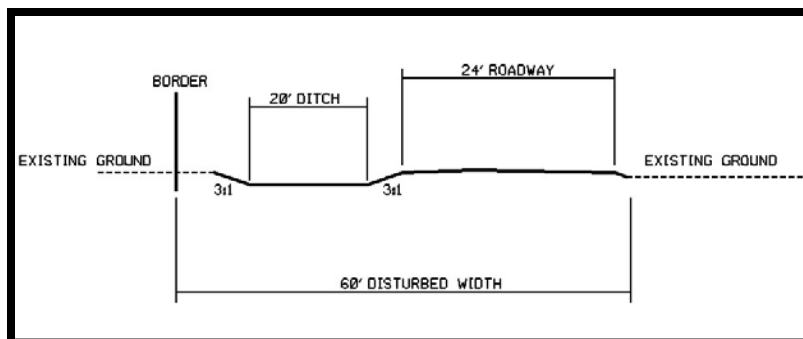
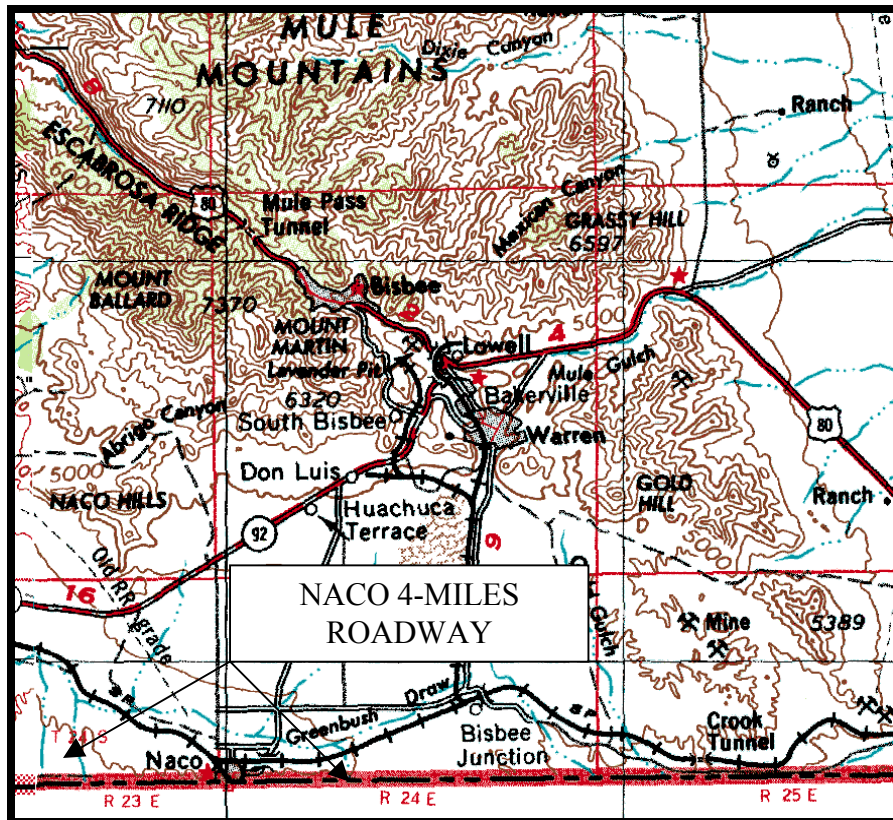
Project Summary

Real Estate: All work and access will be within the 60' Roosevelt Reservation, ROEs in place for access

Environmental: EA for Naco Roadway Improvements and Fence Construction

Design: Permanent infrastructure for this phase of construction will be contained within the existing 60 feet reservation. Drainage structures need to include deterrents to alien traffic. The plans include proposed roadway plan and profile sheets along with typical sections, storm water pollution prevention plan (SWPPP), construction details and complete bill of materials for military use.

Construction: National Guard or JTF-6 forces will perform the construction work.



Naco, Lighting (5 Miles) Split East and West of the POE**Project Description**

Beginning approximately 1 mile east and 1 mile west of the Naco Port-of-Entry: design and construct permanent lighting 5 miles east and 5 miles west. Use of the standard rural lighting design, previously completed, is anticipated for this project. Previous lighting projects in Naco have been constructed by JTF-6.

**Project Goals**

The proposed project will improve the capabilities of the USBP in securing the borders of the United States by illuminating a portion of the border, thereby: 1) reducing the influx of illegal alien (UDAs) traffic; and 2) help interdict narcotics traffic into the United States.

Existing Infrastructure Include

Dirt roadway

Some vehicle barriers, both permanent and temporary

Improved aggregate roadway under construction (see Naco 4-Miles Roadway)

Proposed Infrastructure To Be Constructed

5 miles of permanent lighting consisting of poles, connect by electrical cable, fitted with halogen stadium lights and fixtures, and energized by Arizona Public Service.

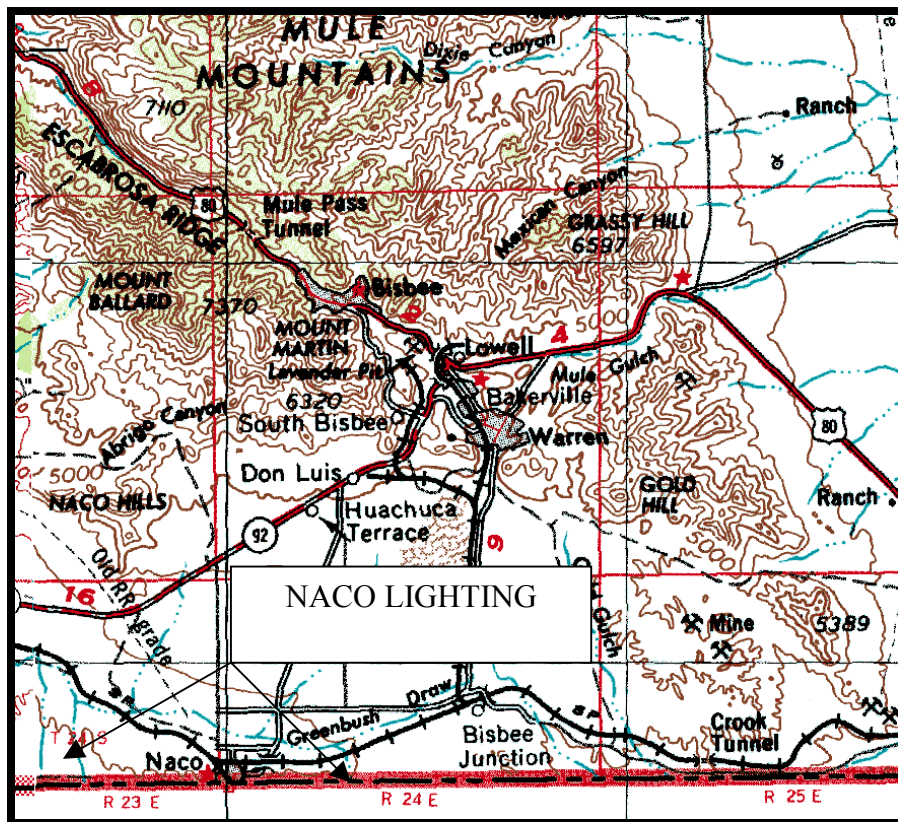
Project Summary

Real Estate: All work and access will be within the 60' Roosevelt Reservation

Environmental: Part of the Naco-Douglas Corridor Supplemental EA, final pending

Design: Use of the typical rural design modified for the terrain. Stadium lights will be used with similar ballast and lights as already used in Naco. The standard design will be applied to the specific project location and adjusted as required to maintain a theoretical minimum light illumination of five (5) foot-candles at any given location between the border and the light installation location. Engineering level mapping will be compiled for the design. The design will be coordinated with the local electric provider to facilitate primary and secondary power installation requirements for the project.

Construction: National Guard or JTF-6 forces will perform the construction work.



Naco, Roadways East and West of POE

Project Description

A total of 20 miles of roadway with associated pedestrian fence and vehicle barriers beginning approximately 2.5 miles west of the Naco port-of-entry and continuing for approximately 16 miles west and beginning 2.5 miles east of the Port-of-Entry and continuing four (4) miles east.



Project Goals

The proposed project will improve access for the USBP in securing the borders of the United States and restrict cross boarder access thereby: 1) reducing the influx of illegal alien (UDAs) traffic; 2) interdict narcotics traffic into the United States; and 3) assist the USBP in responding to migrant rescues. Additionally, reductions in wear on vehicles and reduced maintenance costs are anticipated.

Existing Infrastructure Include

Dirt roadway
Some vehicle barriers, both permanent and temporary

Proposed Infrastructure To Be Constructed

Roadway construction of five miles east and five miles west of the POE. All weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; conversion of vehicle barrier to fence; and Low water crossings.

Project Summary

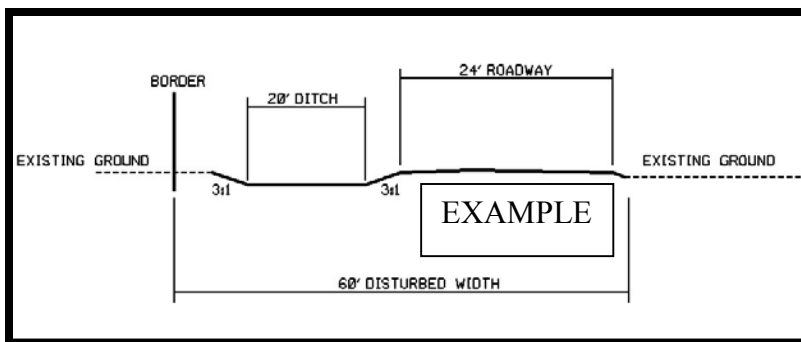
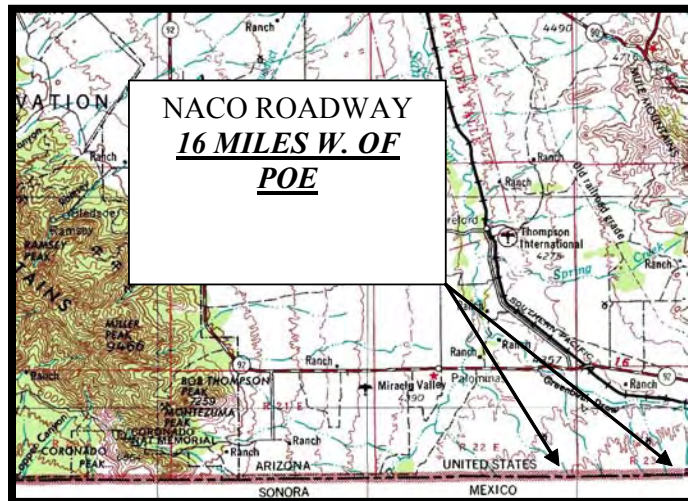
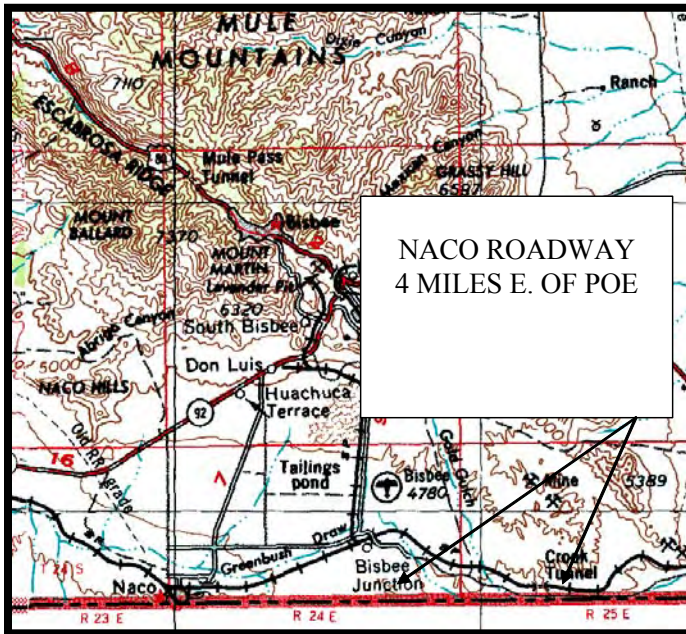
Real Estate: All work and access will be within the 60' Roosevelt Reservation, ROEs in place for access.

Environmental: Naco-Douglas Corridor Supplemental EA

Design: Permanent infrastructure for this phase of construction will be contained within the existing 60 feet reservation. Drainage structures need to include deterrents to alien traffic. The plans will include roadway plan and profile sheets along with typical sections, storm water pollution prevention plan (SWPPP), construction details and complete bill of materials for military use. Aerial mapping has been developed and schematic design completed. A bill of materials will be provided for the project.

Construction: National Guard or JTF-6 forces will perform the construction work.





Naco, Primary Fencing**Project Description**

Construction of 20 miles of pedestrian fence and associated engineering. Incorporation of fencing details, locations of landing mat fence and bollard fencing and development of Bill-of-Materials (BOM) for deployments will be required. Replacement for dwindling supply of landing fence is required.

**Project Goals**

Prevent illegal alien (UDAs) and smugglers from pedestrian and vehicular access across the border into the United States.

Existing Infrastructure Include

IBWC barbed wire fence
Dirt roads
Some vehicle barriers

Proposed Infrastructure To Be Constructed

Pedestrian fence constructed of steel pipe placed into the ground, with pipe welded laterally and covered with surplus landing mat (steel sheets of corrugated steel). Previously this has been associated with concurrent roadway projects.

Project Summary

Real Estate: All work and access will be within the 60' Roosevelt Reservation.

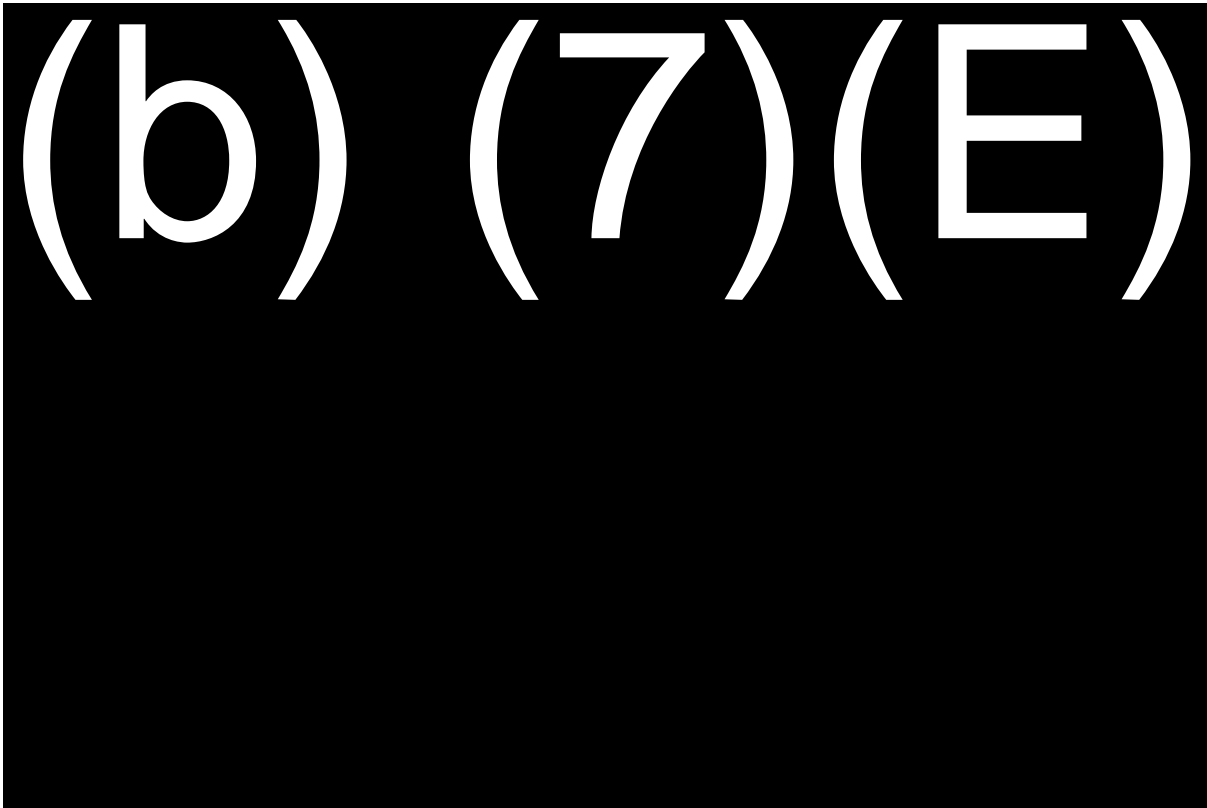
Rights-of-Entry's (ROEs) will be obtained for access outside the 60'.

Environmental: part of the Naco-Douglas Supplemental EA

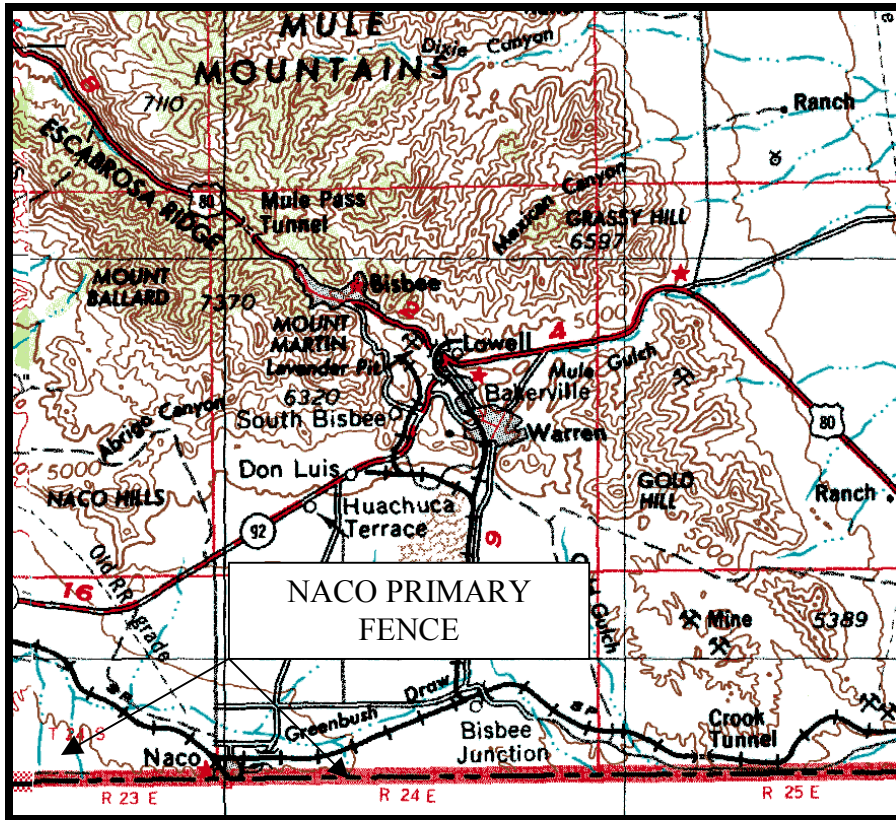
Design: This item will require compiling fencing details into prepackaged projects matching National Guard training mission guidelines and in compliance with environmental documents. The new design projects will include prepackaging and fencing locations and details will be included.

Construction: National Guard or JTF-6 forces will perform the construction work.





* Vehicle barrier to landing mat fence



Nogales, 2 Miles Roadway, Sta 10+00E to Sta 115+00E

Project Description

Beginning approximately 1000 feet east of the Nogales port-of-entry and continuing approximately 2 miles further east is a stretch of marginal and non-existent border road. The project includes numerous drainage crossings and primary fencing. The project is being designed as one entire project, however it will be packaged into multiple construction opportunities geared around METL tasks for military training provided by Arizona National Guard and JTF-6.



Project Goals

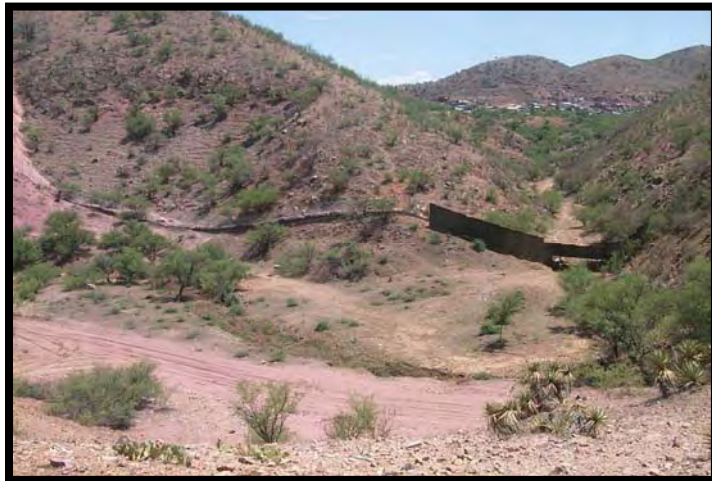
The proposed project will improve access of the USBP in securing the borders of the United States by improving access and thereby: 1) reduce the influx of illegal alien (UDAs) traffic; 2) interdict narcotics traffic into the United States; and 3) assist the USBP in responding to migrant rescues. Access is critical as this area has been the site of rock throwing involving injuries to Agents.

Existing Infrastructure Include

Dirt roadway
Some primary fence

Proposed Infrastructure To Be Constructed

Two miles of roadway construction starting 1000 feet east of the POE and continuing 2 miles to the east; All-weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; and Low water crossings.



Project Summary

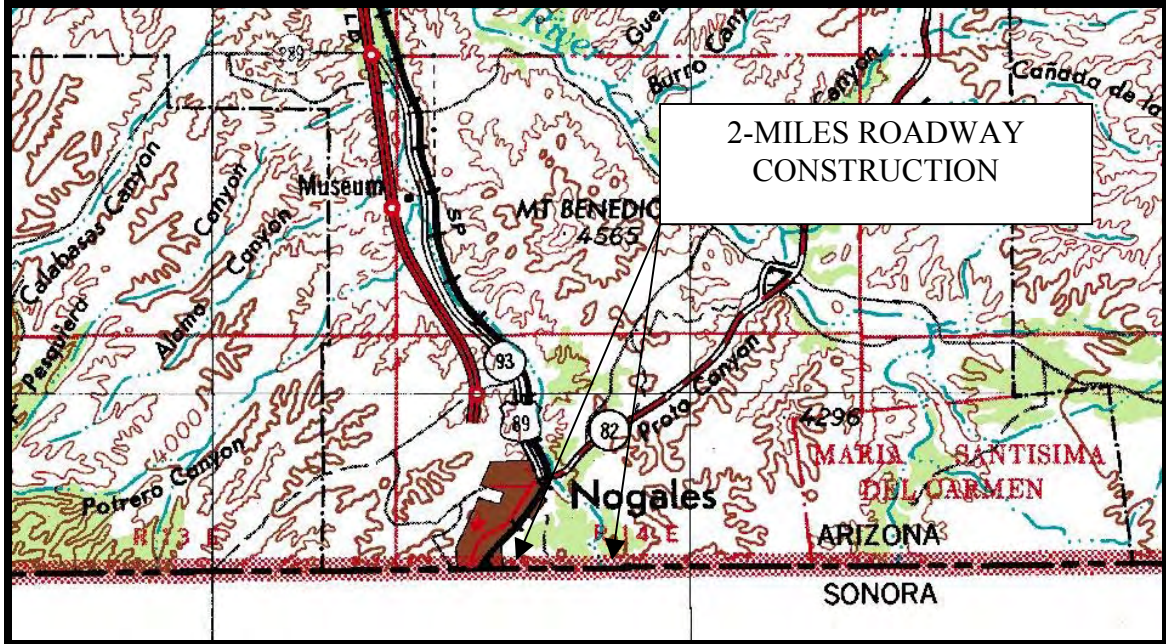
Real Estate: some work and access will be within the 60' Roosevelt Reservation, ROEs for access must be prepared, extensive easements required due to terrain.

Environmental: Nogales Infrastructure EA, Final Pending

Design: Permanent infrastructure for this phase of construction will be contained within the existing 60 feet reservation for the first ½ mile. Drainage structures need to include deterrents to alien traffic. The plans include proposed roadway plan and profile sheets along with typical sections, storm water pollution prevention plan (SWPPP), construction details and complete bill of materials for military use.

Construction: National Guard or JTF-6 forces will perform the construction work.





Nogales, Ephraim Ridge Reclamation

Project Description

Ephraim Ridge Reclamation, is located between stations 25+00W to 30+00W, approximately 0.5 mile west of the Nogales Port-of-Entry. Over the years, several patrol roads have developed across the ridge, resulting in sedimentation and drainage issues at the border fence. A 100% design package has



been completed for the restoration of this ridge and development of appropriate drainage.

Project Goals

Prevent the border fence from falling over into Mexico and preserve the integrity of the border barrier at Ephraim Ridge.

Existing Infrastructure Include

Landing mat fence
Jeep trails

Proposed Infrastructure To Be Constructed

Excavation of material that has accumulated behind the landing mat fence and construction of a gravel roadway and associated drainage features to control sediment.

Project Summary

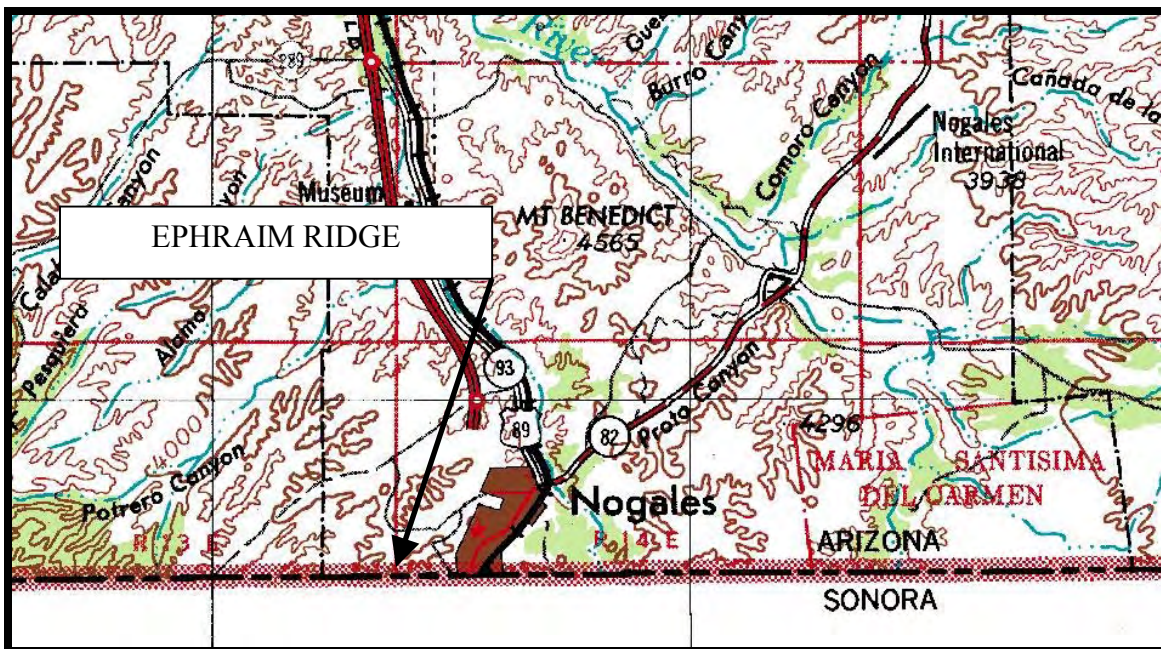
Real Estate: some work and access will be within the 60' Roosevelt Reservation.

Approximately seven acres of easements are required.

Environmental: Ephraim Ridge EA with FONSI

Design: Excavation of material that has accumulated behind the landing mat fence, construction of a roadway and associated drainage features to control sediment.

Construction: National Guard or JTF-6 forces will perform the construction work.



Nogales Schematic Design

Project Description

15% schematic design plans will be developed for approximately four (4) total linear miles, two (2) miles east of Sta. 115+00E and two (2) miles west of the Nogales Port-of-Entry. This project also includes new mapping east of Nogales for design purposes. Construction of 4 linear miles of roadway though FY'10 is anticipated.



Project Goals

Preliminary design of proposed facilities and their associated environmental documents. Ultimately, final designs and NEPA documents will be developed from this project.

Existing Infrastructure Include

Roadways, lighting and primary fence

Proposed Infrastructure To Be Constructed and Associated Documents

Schematic Design and NEPA documents for roadways, lighting and primary fencing. All-weather roads constructed of compacted aggregate base course; Pedestrian fence constructed of tubular steel and landing mat where available; and Low water crossings. Permanent lighting consisting of poles, connected by electrical cable, fitted with halogen stadium lights and fixtures, and energized by Arizona Public Service.

Project Summary

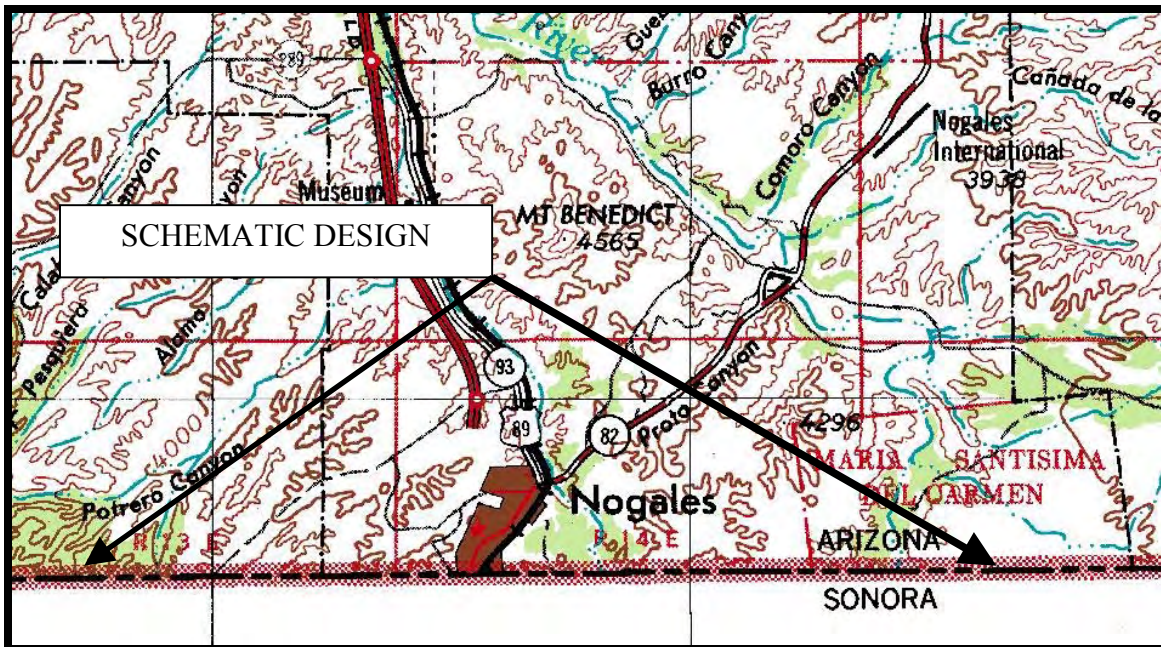
Real Estate: All work and access will be within the 60' Roosevelt Reservation; areas outside the 60' will require ROEs

Environmental: EA will be performed under this project

Design: Field review will be coordinated by the Engineer and include appropriate members of the PDT and the sourced construction troop(s). The engineer will develop and submit to the PDT for review and comments 15% plans that include: Final geotechnical investigation providing recommendations for roadway pavement sections, erosion control measures, and slope protection measures required for construction (see geotechnical scope for more detail); Preliminary drainage report identifying locations and type of drainage structures and all drainage crossings related to this project; Preliminary horizontal and vertical geometry for a primary all-weather road and drag road;

Preliminary bollard fence placement locations; Development of typical section(s); and Preliminary earthwork quantities.

Construction: National Guard or JTF-6 forces will perform the construction work.



Temporary Vehicle Barriers

Project Description

There is a need for additional permanent and temporary vehicle barriers to be placed along the border at Nogales, Sonoita, Tucson, Casa Grande, and Ajo stations. The USBP Tucson Sector proposes to place vehicle barriers between these locations along a 50-mile corridor. Barriers are typically steel pipe arranged such that a (b) (7) foot section is supported at waist height.



Project Goals

Prevent vehicular traffic from crossing the border in remote locations. This will slow and deter the UDA and narcotic traffic.

Existing Infrastructure Include

None.

Proposed Infrastructure To Be Constructed

Permanent and temporary vehicle barriers.

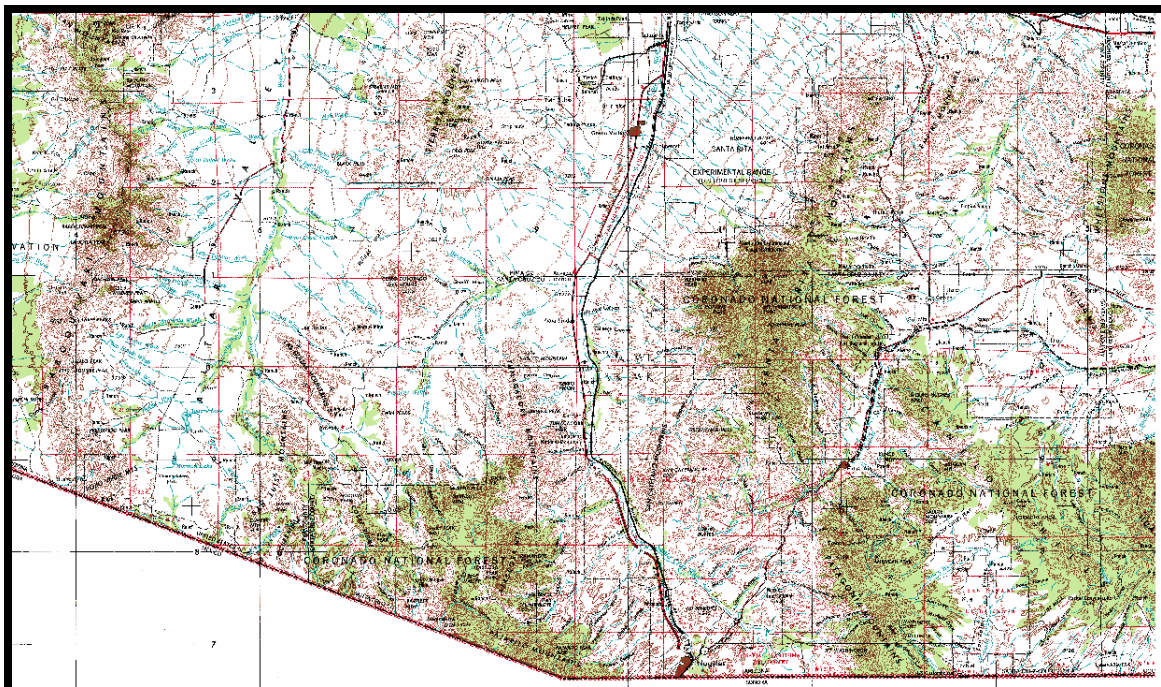
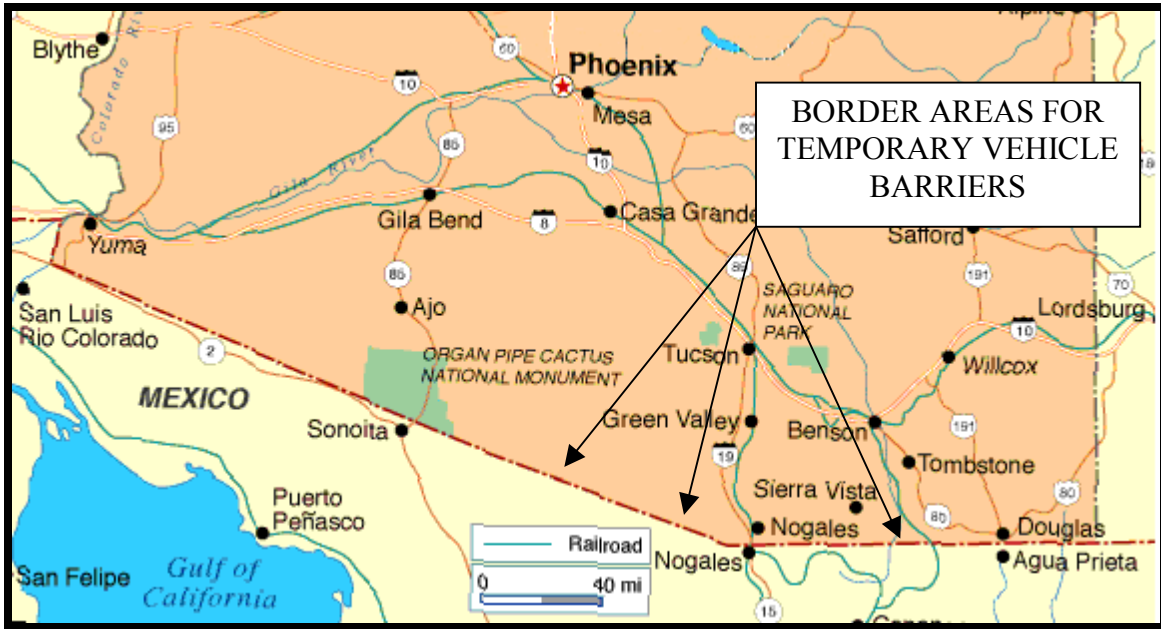
Project Summary

Real Estate: All work and access will be within the 60' Roosevelt Reservation.

Environmental: NEPA documents need to be prepared.

Design: Need to conduct a reconnaissance of the project corridor in coordination with the environmental documentation effort to determine access, placement and constructability. This shall be placed on a base map with sufficient detail for placement of the barriers. This task will require locating these sites, development of schematics sufficient enough to develop the environmental documents. Structural designs for installation will also be provided. Prepare a Temporary Vehicle Barriers Locations, Schematics and Details Report.

Construction: National Guard or JTF-6 forces will perform the construction work.



Nogales, Tunnels

Project Description

Located at the Nogales Morley Street port-of-entry are (b) (7)(E)

[Redacted]

[Redacted]

Entry into the tunnels by agents requires special training, sensing equipment and decontamination suits. Design completed in FY'03.

Project Goals

Provide access to the drainage tunnels and (b) (7)(E) of the tunnels thereby providing safe access for agents and improve apprehension of illegal aliens (UDAs) and smugglers attempting to enter the United States.

Existing Infrastructure Include

Drainage tunnels under the POE

Proposed Infrastructure To Be Constructed

(b) (7)(E)

Project Summary

Real Estate: All work and access will be within federal government property.

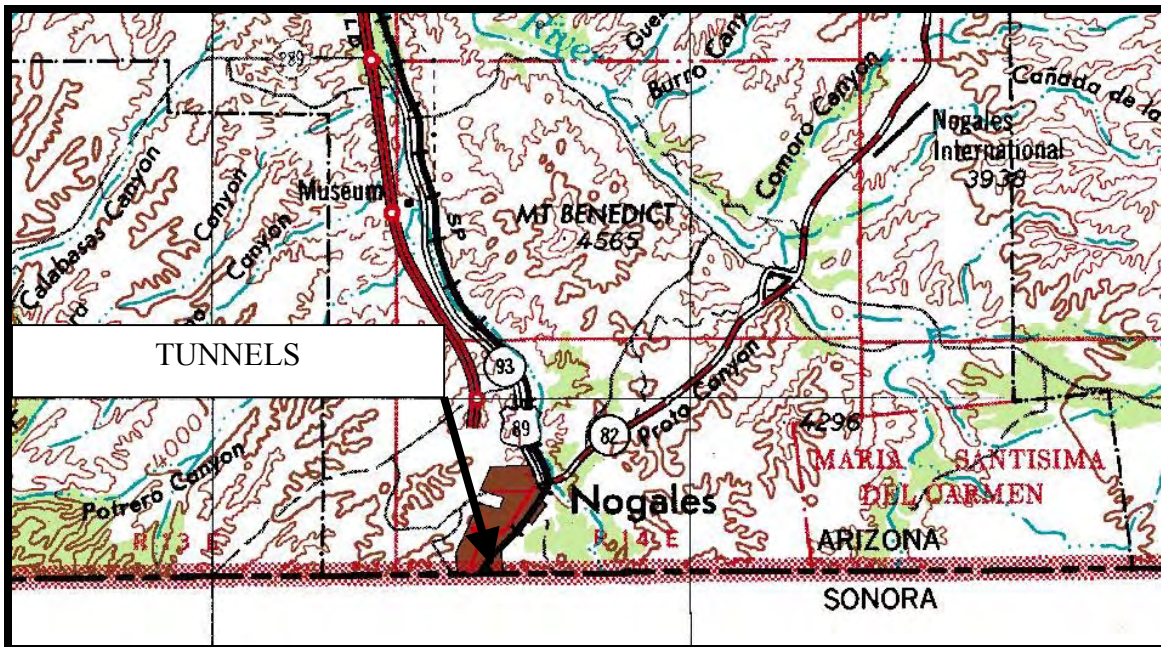
Coordination with union Pacific Railroad will be required.

Environmental: Included in the Nogales Infrastructure EA, final pending.

Design: (b) (7)(E)

for security during low flow and high flow release mechanism, (b) (7)(E) equipment and installation within tunnel which is flow resistant, (b) (7)(E) equipment and installation outside tunnel which is vandal resistant but agent accessible, locker/shower facility and tunnel floor improvements within the project area.

Construction: National Guard or JTF-6 forces will perform the construction work.



Nogales Lighting Relocation**Project Description**

Lighting project includes a proposed relocation of existing lights from a position considerably north of the border to a location near the border, possibly within the 60' Roosevelt easement. This area is between the Deconcini POE and Mariposa POE in Nogales Az. The TCA PDT will include it in the FY '05 projects because of the need to move the lights



closer to the border or obtain lease agreements/purchase land for this project. Need to program the funds and scope work items, most important now is looking at real estate.

Project Goals

The proposed project will improve the capabilities of the USBP in securing the borders of the United States by reducing the enforcement zone and improving illumination on a portion of the border, thereby: 1) reducing the influx of illegal alien (UDAs) traffic; and 2) helping to interdict narcotics traffic into the United States.

Existing Infrastructure Include

Roadways, lighting and primary fence.

Proposed Infrastructure To Be Constructed

Relocate existing lighting closer to the border. Permanent lighting consisting of poles, connected by electrical cable, fitted with halogen stadium lights and fixtures, and energized by Arizona Public Service.

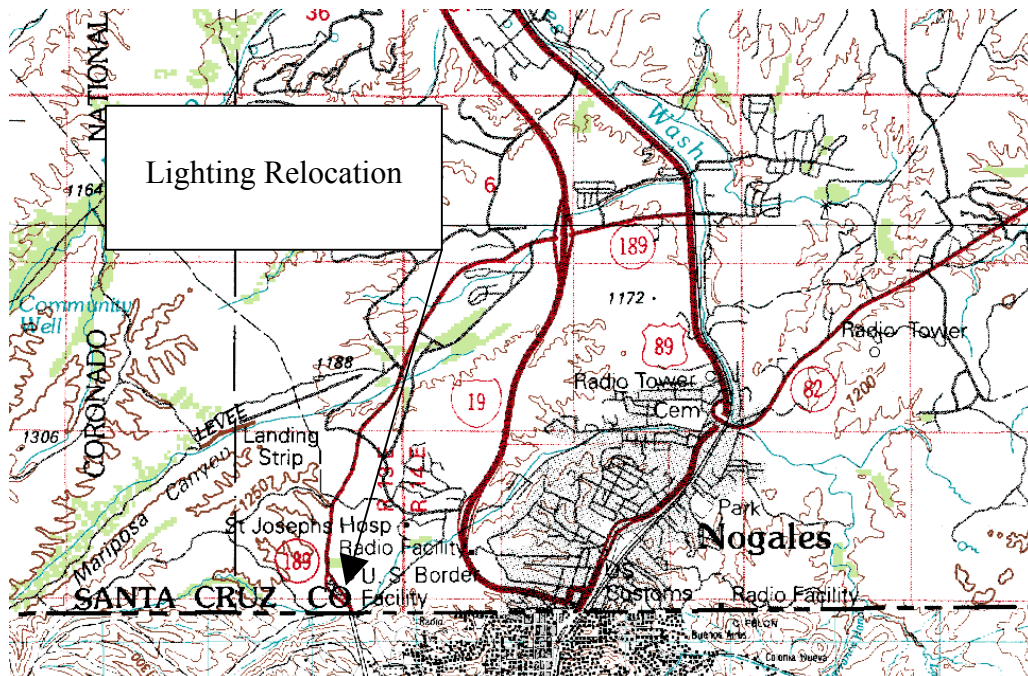
Project Summary

Real Estate: All work and access will be within the 60' Roosevelt Reservation, areas outside the 60' will require ROEs

Environmental: An EA will be performed under this project

Design: Field review will be coordinated by the Engineer and include appropriate members of the PDT and the sourced construction troop(s). The engineer will develop and submit to the PDT for review and comments. Project under TCA PDT AERC-218 transferred from AERC-387.

Construction: National Guard or JTF-6 forces will perform the construction work.



Sonoita, Preliminary Design**Project Description**

The USBP Sonoita Station is in need of access maintenance, primarily on U.S. Forest Service Lands. The Sonoita Station proposes to improve eight (8) miles of roads with associated pedestrian fence and vehicle barriers requiring an engineering assessment. This will include coordination with effected agencies and compliance with the appropriate environmental documents. Construction is to take place through FY'10.

**Project Goals**

Improve access through a remote area to increase agent response to emergencies, and facilitate the apprehension of UDAs and interdict narcotics.

Existing Infrastructure Include

USFS roadways and trails.

Proposed Infrastructure To Be Constructed

Maintenance of roadways and construction of drainage features where required.

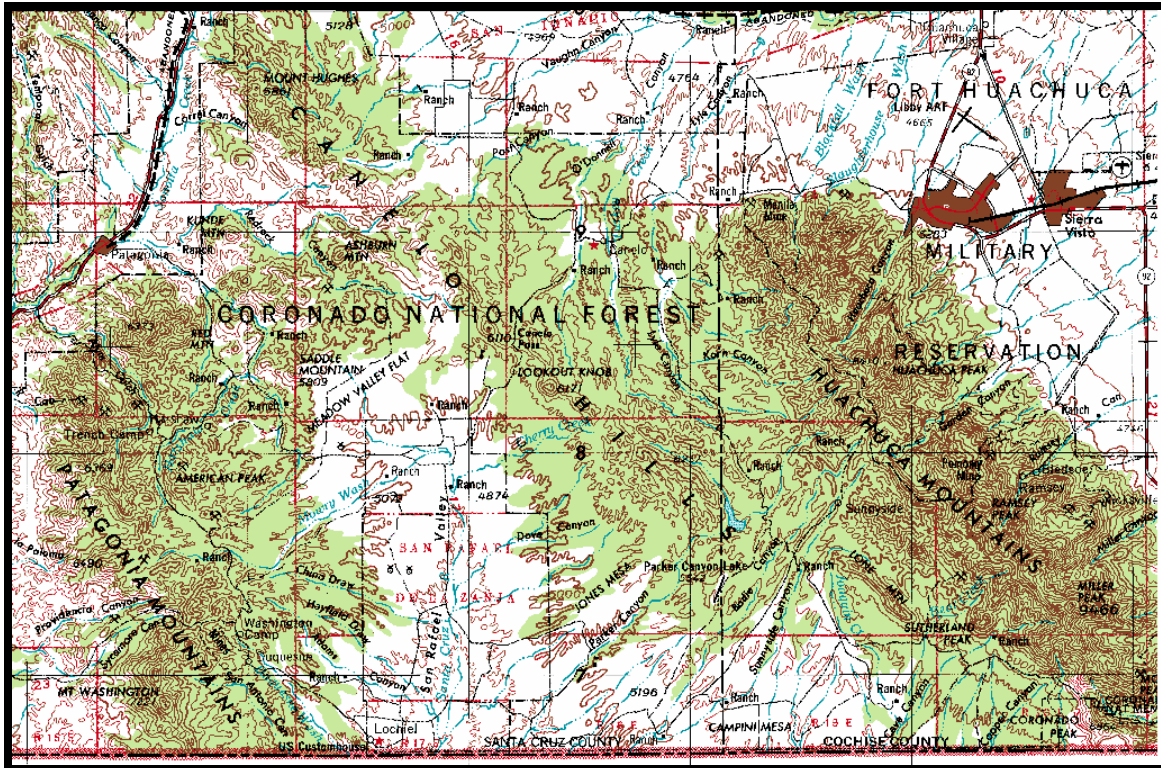
Project Summary

Real Estate: coordination with the US Forest Service and private property owners is required

Environmental: this project will develop the required NEPA documents

Design: Engineering Assessment of Roadways Report that includes: 1) roadway conditions; 2) proposed alignments; 3) proposed improvements including typical section; 4) cost estimate based on the level of service determined by the PDT; 5) graphical depiction of proposed improvement locations on the best available topographic mapping; 6) photographs of proposed alignments taken during at least one (1) site visit keyed to the mapping; and 7) coordination with the environmental documents.

Construction: National Guard or JTF-6 forces will perform the construction work.



The exact roadways that might be impacted are not known at this time

Douglas, Primary Fencing**Project Description**

Construction of pedestrian fence and associated engineering (see map and typical detail). Engineer has located landing mat fence and bollard fencing and developed Bill-of-Materials (BOM) for deployments. Replacement for dwindling supply of landing fence is required.

**Project Goals**

Prevent illegal alien (UDAs) and smugglers from pedestrian and vehicular access across the border into the United States.

Existing Infrastructure Include

IBWC barbed wire fence
Dirt roads
Some vehicle barriers

Proposed Infrastructure To Be Constructed

Pedestrian fence constructed of steel pipe placed into the ground, with pipe welded laterally and covered with surplus landing mat (steel sheets of corrugated steel). Previously this has been associated with concurrent roadway projects.

Project Summary

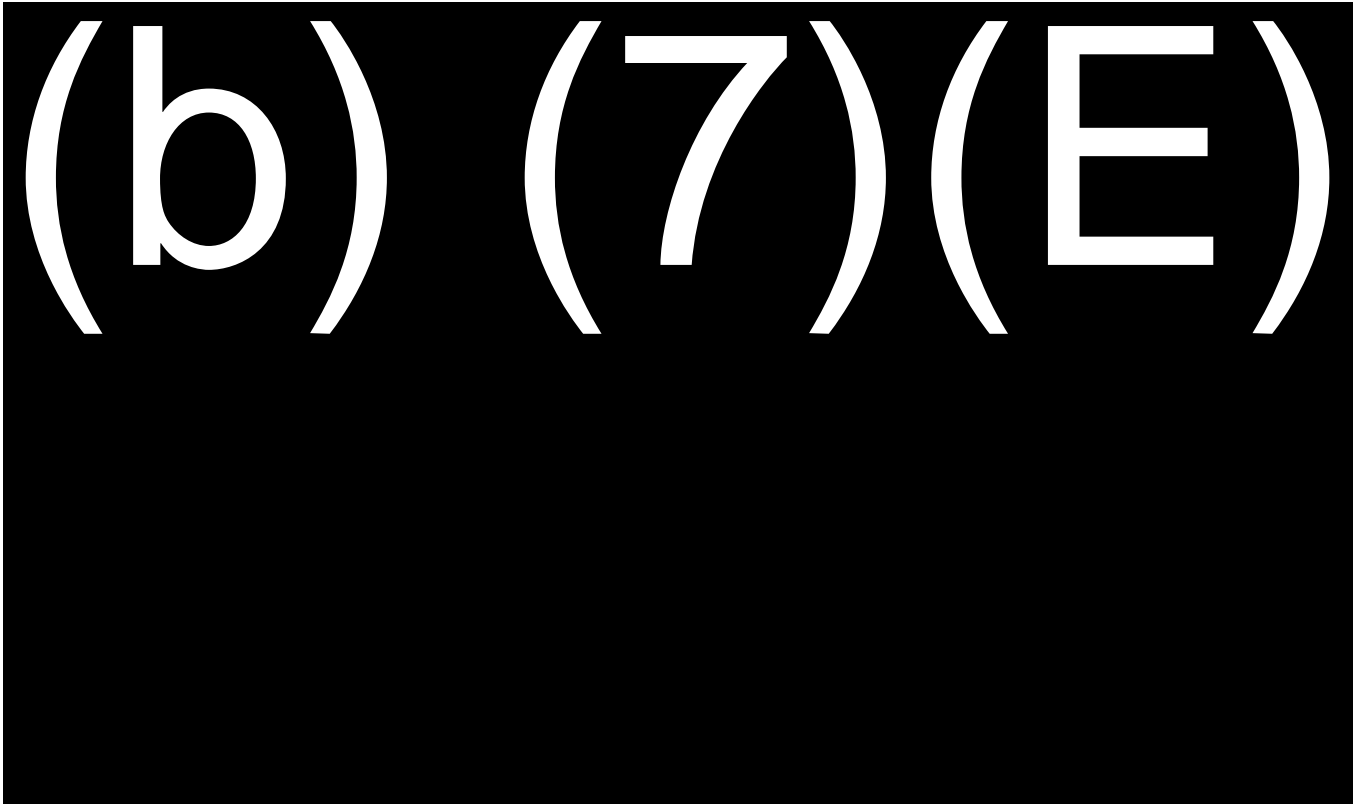
Real Estate: All work and access will be within the 60' Roosevelt Reservation. Rights-of-Entry's (ROEs) will be obtained for access outside the 60'.

Environmental: part of the Naco-Douglas Supplemental EA

Design: This item will require compiling fencing details into prepackaged projects matching National Guard training mission guidelines and in compliance with environmental documents.

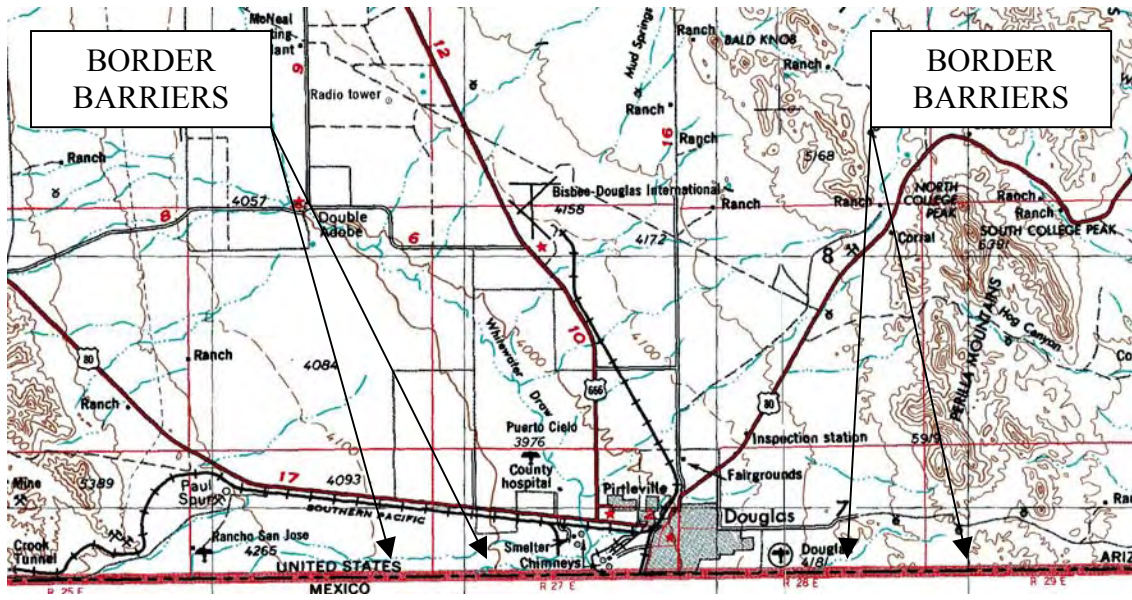


Construction: National Guard or JTF-6 forces will perform the construction work. Pending deployments.



- * Temporary Vehicle Barrier
- ** Includes 1 Mile Bollard Fencing





Cabeza Prieta Vehicle Barrier**Project Description**

The USBP Tucson Sector - Ajo Station and Yuma Sector – Wellton Station are in need of vehicle barriers along the U.S. Mexico border across the entire Cabeza Prieta National Wildlife Refuge. The 1,000-square-mile refuge shares a 56-mile international border with Sonora, Mexico (23 miles in the Tucson Sector AO and 33 miles in the Yuma AO). This will include coordination with effected agencies and compliance with the appropriate environmental documents. Construction is anticipated to begin FY'05.

(b)(6)&(b)(7)(c)&(b)(7)(e)

Project Goals

1) Prevent vehicular incursions into the United States from Mexico, typically by narcotics traffickers and UDAs. 2) Improve access through a remote area to increase agent response to emergencies, and facilitate the apprehension of UDAs and interdict narcotics. 3) Reduction in illegal vehicular traffic in the NWR will have the added benefits of increased security and reduced environmental damage on illegal roads. The majority of illegal roads are concentrated in the project area where (b)(7)(E) is in close proximity to the border.

Existing Infrastructure Include

Trails, unimproved roadways, and the boundary fence (barbed wire ranch fence severed or cut in most places)

Proposed Infrastructure To Be Constructed

Vehicle barrier and all weather aggregate roadway along the border.

Project Summary

Real Estate: coordination with the USF&WS is required.

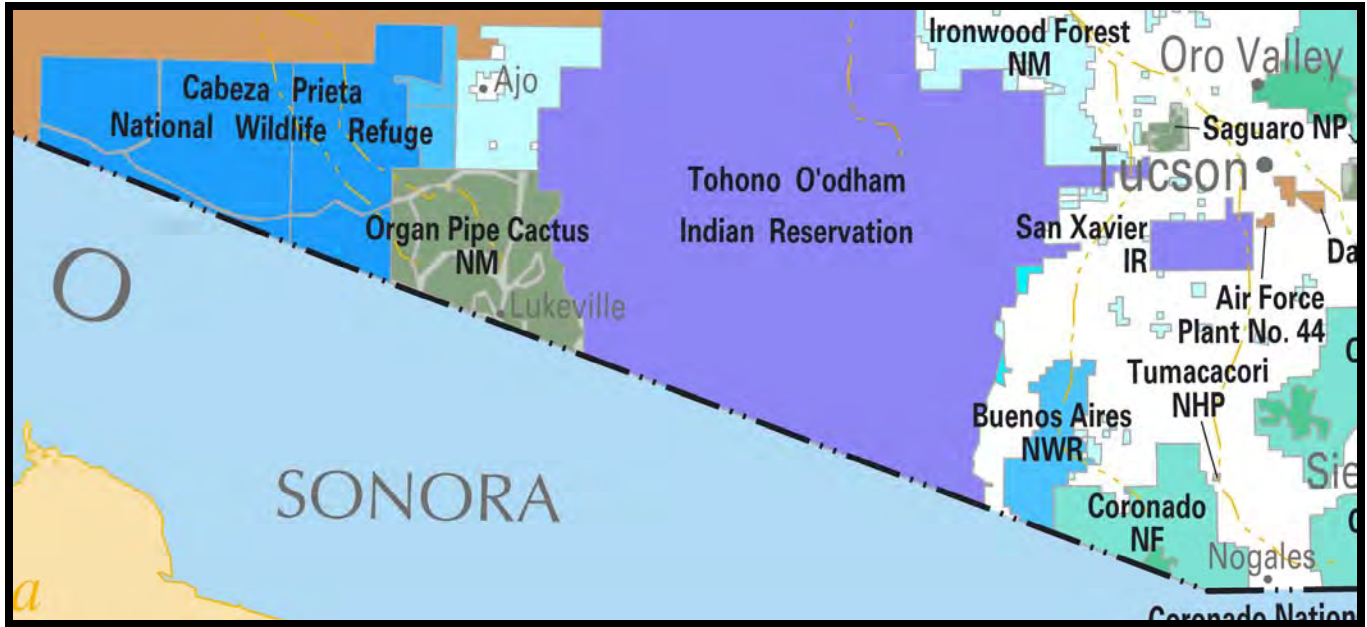
Environmental: this project will require NEPA documents including an EA for access maintenance.

Design: Simple standard designs used in the past, such as railroad rail as depicted on the photo above (temporary – set on the ground), or placed into ground (permanent).

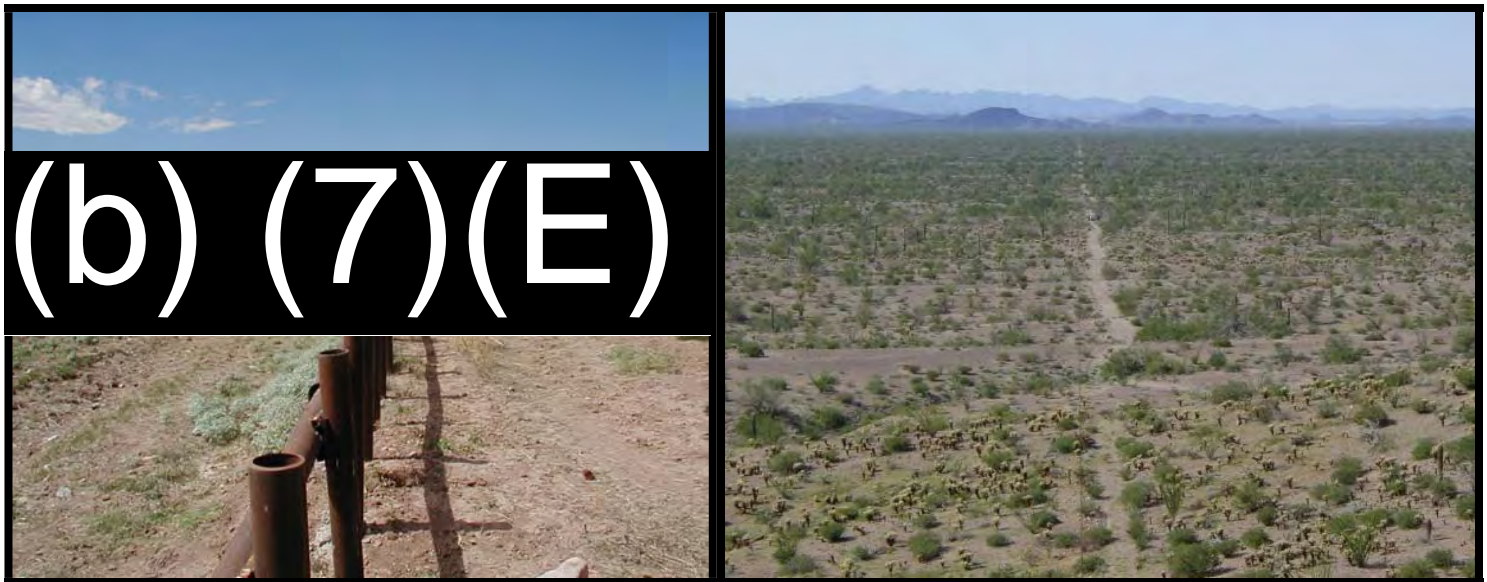
Estimates for a facility similar to that in Organ Pipe National Monument as depicted in the photo above are (b)(5) through private contractors. Permanent vehicle barrier as noted in Columbus NM is estimated at (b)(5) through military construction.

Roadway construction is estimated at (b)(5) per mile or (b)(5). Total project construction, including environmental and engineering is (b)(5).

Construction: National Guard or JTF-6 forces are anticipated to perform the construction work.



located west of Tucson, encompassing portions of the Yuma and Tucson Sectors
<http://southwest.fws.gov/refuges/arizona/cabeza.html>



Example (Vehicle Barrier near Columbus NM)

Cabeza Prieta NWR



U.S. Customs and Border Protection

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U.S. Customs and Border Protection

PDT MEETING MINUTES

TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
DEPARTMENT OF HOMELAND SECURITY
CUSTOMS AND BORDER PROTECTION
OFFICE OF BORDER PATROL - TUCSON SECTOR

MEETING MINUTES

Meeting Date and Time: 19 July 2005 @ 10:00
Meeting Location: Tucson Station
Meeting Purpose: TCA PDT Meeting

DISTRIBUTION

See attached Distribution list.

INTRODUCTION

Farewell to (b)(6) as he formally retires 3 August. Welcome to (b)(6) who has served as the Sonoita Station Tactical Infrastructure Representative, who will now be our point of contact at the Tucson Sector OBP.

ACTION ITEMS

| ACTION | RESPONSIBLE | STATUS | |
|--|--|-------------------------------------|--|
| GSA coordination on drainage tunnel access work. Follow-up with local contact at the POE. To be discussed in July 29 Nogales meeting | (b)(6) (b)(6) Nogales staff & Baker | Pending | |
| 2. Follow-up on paving the Nogales ½ mile with a private contractor once funding is available. Pending with PM (b)(6) | (b)(6) | Pending | |
| 3. Finalize SOW and prepare fee proposal for FY'05 engineering services by Baker Eng. (Sonoita in , need others) Reviewing cost estimates, etc. | | Pending | |
| 4. Rental Equipment extended for Naco and Douglas fence crews, pending new vendor. | | Done | |
| 5. Douglas, 13-Mile Roadway 2.5 miles on the west into the Naco AO 100% plans expected by 28 June 2005. Baker is doing quality review of plan sets | | Pending, Sealed plans due 23 August | |
| 6. Douglas, International Ditch drainage report expected 3 June 2005. Submitted to PM (b)(6) for review. | | Done | |
| Environmental Working Group | | | |
| 1. Set aside (b)(5) for mitigation on Whitewater Draw 404 permit | | Pending | |
| 2. Ephraim Ridge Reclamation SOW and request for fee proposal for Phase I ESA to GSRC. GSRC & AERC to re-negotiate fees. | | NTP to be issued | |
| 3. Tucson BA needs funding for GSRC contract modification and up-dated maps from stations. Maps completed & at GSRC. | | Pending, (b)(6) (b)(6) to assist | |

TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
DEPARTMENT OF HOMELAND SECURITY
CUSTOMS AND BORDER PROTECTION
OFFICE OF BORDER PATROL - TUCSON SECTOR

| ACTION | RESPONSIBLE | STATUS |
|---|-------------|--------------------------------|
| 4. Provide (b)(6) with a copy of the Preliminary Draft EA for the Sonoita Border Roads to obtain feed-back on deployment operation and staging sites. | (b)(6) | Done |
| 5. Comments needed on PEIS by 15 July | All | Pre-Final going out on 22 July |

MILITARY DEPLOYMENTS

Arizona Army National Guard

(b)(6)

Scheduled Deployments FY'05

101st Engineer Company from Massachusetts completed a successful deployment into Whitewater Draw. National Guard currently has small deployment of 4 to 6 soldiers into Douglas west for monsoon repair, roadway and drainage construction. Will end by 30 July. Sourcing of FY'06 units underway by (b)(6). Updated e-mail from (b)(6) attached to these minutes.

JTF-N

(b)(6)

No Further Scheduled Deployments FY'05

Report on Potential FY'06 Deployments. No deployments anticipated for 1st quarter, may have as many as 8 missions in FY'06, but no units sourced at this time.

ENGINEERING

Baker Eng.

(b)(6)

An update of the status for each project in TCA is attached to these minutes.

Douglas, Lighting (5 Miles)

Douglas, 13-Mile Roadway

Douglas, International Ditch drainage reviewed and comments returned to Baker

Naco, Lighting (5 Miles)

Nogales, Schematic Design on hold pending resolution of real estate issues and funding to proceed. To be discussed in 29 July meeting in Nogales.

FY'05 Engineering Projects

(b)(6)

2 additional miles of roadway in Douglas

relocation of lights in Nogales

2 additional miles of roadway in Nogales

4 miles in Sonoita (fee proposal received and in process, effort will not proceed until environmental documents are in place)

ENVIRONMENTAL

GSRC

(b)(6)

TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
DEPARTMENT OF HOMELAND SECURITY
CUSTOMS AND BORDER PROTECTION
OFFICE OF BORDER PATROL - TUCSON SECTOR

PEIS Tucson & Yuma

GSRC will submit the preliminary final EIS for the Tucson/Yuma Daily Operations by 22 July. The PDT established a deadline for internal comments of 12 August. GSRC will send (b)(6) (b)(6) copies, per (b)(6) request.

Tucson BA

GSRC is proceeding with the preparation of the revised Tucson BA, based on additional ABCI II data provided by (b)(6) but funding is still not available. (b)(6) will prepare a project description and funding request to submit to (b)(6) will acquire the necessary funds. Legal opinion regarding water mitigation requirements has not been received from OC.

Whitewater Draw 404 Permit

GSRC drafted a letter for BP signature to send to the City of Douglas with copies to Phelps Dodge and (b)(6) (USACE Los Angeles District) that establishes a deadline of 27 August 2005 for the decision on the WWD mitigation site MOA. After that date, BP will provide the (b)(5) in lieu compensation to the Los Angeles District.

San Pedro River LWC

(b)(6) (BLM Sierra Vista Office) provided verbal comments on the San Pedro River LWC BA. BLM is concerned about the size of the footprint and the location. Another site visit was suggested and tentatively scheduled for the week of 8 August. (b)(6) will develop additional concepts at both locations prior to the site visit. (b)(6) will coordinate with all parties to establish a meeting date and time.

Sonoita Border Road EA

The Sonoita border road draft EA public comment period closes 20 July. No comments have been received to date, but (b)(6) reported that BLM stated they expected to send comments. (b)(6) will send GSRC comments when he returns to his office on 25 July. If comments are not excessive or require significant changes, the preliminary final EA could be submitted within 3 weeks (around 15 August).

Vehicle Barriers - Tohono O'Odham Nation (TON)

The vehicle barriers on the TON is being negotiated; (b)(6) has not received the requested more funding from CBP.

Tactical Infrastructure for Western Arizona

Public meetings were scheduled for Tucson, Gila Bend and Yuma from July 19th through July 21st. Tactical Infrastructure for Western Arizona (TIWAZ) Public Meeting will be held after the PDT at the Tucson Convention Center, from 4 to 8 PM. The Cabeza Prieta material can now be accessed via the link below: (b)(6) Let (b)(6)

(b)(6) (GSRC) know if you are having trouble accessing the ftp site. His contact information is below, after hours please use the cell number. GSRC Phone: (b)(6)
Fax: (b)(6) Cell: (b)(6) Email: (b)(6)(b)(7)(C)

HQ CBP is considering the establishment of a separate PDT for the remainder of the TIWAZ project

USPP

Nogales Schematic Design –to be discussed on July 29 meeting in Nogales. The Nogales 10-mile road project is on-hold. Might be rolled into another project.

TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
 DEPARTMENT OF HOMELAND SECURITY
 CUSTOMS AND BORDER PROTECTION
 OFFICE OF BORDER PATROL - TUCSON SECTOR

Ephraim Ridge Phase I –GSRC submitted estimate for Ephraim Ridge ESA/EA. Contract for Ephraim Ridge ESA/EA is in FW contracting; NTP should be received soon.

REAL ESTATE

USACE - Sacramento

No Report

NLC - Laguna Nigel

Ephraim Ridge Report

CBP legal review completed, pending release.

(b)(6)

PROCUREMENT

AERC

Discussion of Hertz Rentals in Naco and Douglas. A contract for DGL has been issued to hertz, and Empire for NCO.

(b)(6)

CONSTRUCTION

Kleinfelder

Updates (see web page below)

To access a website that has updates, go to:

(b)(6)

-Click on the **Client Link** link at the left of the page.

-Select **Border Patrol Construction Oversight** from the drop-down menu.

-For a User Name enter (b)(7)(E)

-For a Password enter: (b)(7)(E)

(The User Name and Password are case-sensitive, so make sure you don't capitalize.)

-Select the deployment you wish to view

(b)(6)

ACTION ITEMS

| | |
|--|--|
| 1. GSA coordination on drainage tunnel access work. Follow-up with local contact at the POE. To be discussed in July 29 Nogales meeting | (b)(6) (b)(6) Nogales staff & Baker |
| 2. Follow-up on paving the Nogales ½ mile with a private contractor once funding is available. Pending with PM (b)(6) | (b)(6) |
| 3. Finalize SOW and prepare fee proposal for FY'05 engineering services by Baker Eng. (Sonoita in , need others) Reviewing cost estimates, etc. | |
| 4. Douglas, 13-Mile Roadway 2.5 miles on the west into the Naco AO 100% plans expected by 28 June 2005. Baker is doing quality review of plan sets | |
| 5. Meeting in Nogales 29 July to go over Nogales Stations projects | All |
| Environmental Working Group | |

TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
DEPARTMENT OF HOMELAND SECURITY
CUSTOMS AND BORDER PROTECTION
OFFICE OF BORDER PATROL - TUCSON SECTOR

| | | |
|----|---|------------------|
| 1. | Set aside (b)(5) for mitigation on Whitewater Draw 404 permit | (b)(6) |
| 2. | (b)(6) will prepare a project description and funding request to submit to (b)(6) will acquire the necessary funds. | |
| 3. | GSRC will submit the preliminary final EIS for the Tucson/Yuma Daily Operations by 22 July. Deadline for internal comments of 12 August. Also (b)(6) to receive copies. | GSRC |
| 4. | San Pedro River crossing, additional concepts at both locations prior to the site visit. Coordinate with all parties to establish a meeting date and time. | (b)(6) & GSRC |
| 5. | Ingram submitted the update of the NEPA status matrix for internal review and comments. The deadline for additional comments is 27 July. (b)(6) will revise and submit the matrix to (b)(6) for final distribution by 1 August. | All |

NEXT MEETINGS

23 August 2005 @ 10:00 – Tucson Station

13 September 2005 @ 10:00 – Tucson Station

TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
DEPARTMENT OF HOMELAND SECURITY
CUSTOMS AND BORDER PROTECTION
OFFICE OF BORDER PATROL - TUCSON SECTOR

DISTRIBUTION

(b) (6)

LOCATION: Tucson Station

TUCSON SECTOR

(b)(6)
 (b)(6)
 (b)(6)
 (b)(6)

NOGALES STATION

(b)(6)
 (b)(6)
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DOUGLAS STATION

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SONOITA STATION

(b)(6)

NACO STATION

(b)(6)
 (b)(6)
 (b)(6)

CASA GRANDE STATION

(b)(6)

YUMA SECTOR

(b)(6)

CONSULTANT TEAM

BAKER

(b)(6)
 (b)(6)
 (b)(6)

GSRC

(b)(6)
 (b)(6)

KLEINFELDER

(b)(6)
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BPSCC

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CORPS OF ENGINEERS

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JTF- N

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DHS

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IBWC

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AZ NATIONAL GUARD

(b)(6)
 (b)(6)

OTHER GOVERNMENT AGENCIES

USFS

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AG&FD

(b)(6)
 (b)(6)

USF&WS

(b)(6)
 (b)(6)

BLM

(b)(6)
 (b)(6)

OTHER

NAME:

(b)(6)

AFFILIATION:

ADDRESS:

E-MAIL:

PHONE:

(b)(6)

LOCATION: Tucson Station

NAME:

(b)(6)

AFFILIATION:

ADDRESS:

E-MAIL:

PHONE:

(b)(6)

NAME:

AFFILIATION:

ADDRESS:

E-MAIL:

PHONE:

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PHONE:

FAX:

From: (b)(6)

Sent: Wednesday, July 20, 2005 11:26 AM

To: (b)(6)

(b)(6)

Subject: FW: TCA PDT Meeting 19 July 2005

SFC Tucker & SSG Cross:

Reference the Tucson PDT meeting 19 JUL 05, we have the following action(s):

Environmental Working Group:

item 4: Provide (b)(6) with a copy of the Preliminary Draft EA for the Sonoita Border Roads to obtain feed-back on deployment operation and staging sites.

I have the binder and will bring it to our meeting with JTF-N, 27 JUL.. I talked with (b)(6) (b)(6) (GSRC) and some of the sites he visited with (b)(6) but the other sites we need to conduct a drive thru site visit and identify potential bivouac and equipment staging areas, etc. Dates TBA and coordinated with (b)(6)

(b)(6) Probably need to visit with you and insure I understand the tasking to insure our actions are IAW your direction. We can do a teleconference, call me at the office (b)(6) (b)(6) and I can conference in (b)(6) and staff from Douglas. THANKS

My 13 JUL meeting with (b)(6) and (b)(6) identified by priority, the four (4) Tucson Sector TFD IRT projects for FY06:

- 1) 10' CMP west of WWD
- 2) Monson repair/drainage W/O the 10' CMP; 2-3 miles
- 3) King's Ranch Road low water crossing
- 4) Vehicle Barriers (Buenos Aries)
- 5) On Order: locate an asphalt company/platoon that could finish the asphalt project at the Nogales POE. They had the first ½ mile done and there is another ½ to complete the project. This needs to be identified and posted at the JOES Conference.

Tucson will have representation at the JTF-N 27 JUL meeting in El Paso, TX.

(b)(6), please visit with (b)(6) and obtain the same information for the Yuma projects for FY06 that Yuma will be funding.

Please note: Klienfelder's web site identifies photos of what the TFD support units have done during their deployments. FYI.

Finally, (b)(6) Senior Tactical Coordinator for the Tucson Sector Border Patrol, had a retirement lunch which I attended. It was a great farewell luncheon and you can tell he had a great career by those in attendance and the stories that were provided. His leadership and love for his job, service to his country, community, and fellow BP agents will be a legacy for those to follow.

(b)(6)

TUCSON PDT - MICHAEL BAKER ENGINEERING REPORT

19-Jul-05

CURRENT STATUS

TO DO

DATE

ACTIONS PER LAST PDT MINUTES

1. GSA Coordination on drainage access work
2. Paving 1/2 mile Nogales
3. Sow and fee FY'05
5. Douglas 13 miles, 2.5 miles
6. Douglas, International Ditch drainage report

Discuss - July 29 meeting in Nogales

Baker-scope and fee plans review

see below
see below
see below

ENGINEERING PDT

| | | | | | |
|---------------|-----------------------------|--------------------------|--|--|---------------------------------------|
| Douglas | lighting 5 miles | 2.5 East 2.5 West | In Progress In progress | Submit 90% Existing Conditions need improvement: | 23-Aug |
| | 13 miles roadway, 2.5 miles | plans drainage BOM | 60% Hydrology-drainage basins modified In progress In progress | Revise 60% (Vert Alignm & Hydraulics)-comment: Submit draft for review-comments Submit draft for review-comments | 22-Jul e mail pdf 23-Aug 23-Aug |
| | International Channel | plans | Submitted 60% Plans | Need comments Proceed to 90% design-comments Meet with City (with agent Schad Address Comments and Resubmit w 90% plans-new comment Submit draft to IBWC-comments Submit draft to Douglas Station-comments Submit 90% Drainage Report to City-comment: | |
| | | drainage | Submitted First draft and comments rcvd from (b) (6) | | |
| Naco | Lighting 5 miles | | Submitted 90% In June 05 | Need comments Proceed to 100% | |
| Nogales | Schematic Design | | On Hold | Proceed to finalize alignment | |
| FY' 05 | | | | | |
| Douglas | 2 miles additional roadway | | draft submitted | discuss and finalize to submit-field check on July 28 | |
| Nogales | Relocation of lighting | | draft submitted | discuss and finalize | |
| Sonoita | 4 miles of roadway | | draft submitted | discuss and finalize | |

August 13

ADDITIONAL ACTIONS

Douglas White Water Draw post deployment

Naco lighting sensors installior

Nogales 1/2 mile bollard fencing
shower facility

Stop Work

Sonoita

General Deployments & Limits & Construction Desc
Color Map with Projects and Status Delineation:
Completion report to include:
(unit, depl dates, sta & GPS limits, desc. Done & remaining

ASBLTS From Urban
Punchlist of remaining to do to (b)(6)

22-Jul

Look into problem
Road ASBLTS
July 29 visit-determine and contact IBWC to discuss
~~_____~~

Submit to (b)(6)
Revise and Submit to (b)(6)
Improve

22-Jul

**Contact (b)(6) for any comment



U.S. Customs and Border Protection

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U.S. Customs and Border Protection

AERC WEB PAGE UPDATES



US Army Corps
Of Engineers

A-E Resource Center Project Tracking System



- AERC Home
- PTS Home
- View Active Projects
- View Active Reports
- ▣ Library
- Edit Project
- Upload Project Files
- Edit Project File Table
- Border Barrier Business
- Business Cards
- Edit Profile

Project Information

Description of Project

AERC Number: AERC-218
Title: Tucson Sector Border Infrastructure System
Location: Douglas AZ BPST
Sector / District: Tucson Sector
COE PM: (b)(6)
DHS PM: (b)(6)
Customer: HQ
Executing District: AERC
Current Working Estimate:
Status: Active

| FY Received | RWA Number | Amount Received | Appropriation Code | Percent Complete |
|-------------|------------|-----------------|--------------------|------------------|
| 1999 | (b)(5) | | | |
| 2000 | | | | |
| 2001 | | | | |
| 2002 | | | | |
| 2003 | | | | |
| 2005 | | | | |

Outyear Funds Requested

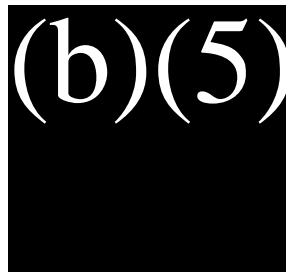
FY Funded

Projected Need

2003
2004
2005

(b)(5)

2006
2007
2008
2009



Total Projected Need:

Project Description

Tucson Sector Border Infrastructure System to include Landing Mat Fence, Vehicle Barrier Fence, roads, permanent and temporary lighting.

Project Update

27 July 2005 uploaded the meeting minutes from last Tuesday's PDT in Tucson and the updated cor list.....TIWAZ, Public meetings were held in Tucson, Gila Bend and Yuma for the CPNWR vehicle barrier. We had 10 members of the public at the Tucson meeting, 6 members of the public at the Gila Bend meeting and around 18 people at Yuma, including 2 journalists. Gov't representation at the meetings includec BLM, MCAS Yuma, US Fish and Wildlife Service (Refuge and Ecological Services), and the US Forest Service. If you need specifics let me know and I will get that information to you next week..... CONSTRUCTION:In June the National Guard completed another successful deployment into Whitewater Draw (Douglas, Arizona) to put the finishing touches on the approach road to the Box culvert and to bollard fence along the border.

4 July 2005 This month the National Guard has completed another successful deployment into White Draw (Douglas, Arizona) to put the finishing touches on the approach road to the Box culvert and to bollard fence along the border. Additional information can be found at www.kleinfelder.com -Click on Link link at the left of the page. -Select Border Patrol Construction Oversight from the drop-down menu. User Name enter: (b) (7)(E) -For a Password enter: (b) (7)(E) (The User Name and Password are case-sensitive so make sure you don't capitalize.)-Select the deployment you wish to view. The following files have been uploaded to the AERC web page: Draft TCA PDT Meeting Minutes of 28 June 2005 (062805.pdf): Project Completion Report for 10 May Naco deployment(NCO10MAY.pdf: and TIWAZ Project Management 5 May (revisions expected)(TIWAZ.pdf):

9 June 2005 (unable to upload monthly report data)..... A deployment arranged by JTF-North to Naco (Port-of-Entry) just complete it's mission 10 May (JT4159-05) to construct patrol roads, low water crossings, and barriers. As of 10 June 2005 the 101st Engineer Company from Massachusetts with 10 personnel will deploy to Whitewater Draw to complete approaches to box culvert. The following files have been uploaded meeting minutes from 24 May 2005 (052405.pdf) and June file uploads with new specifications (JuneUpload.zip)

(From TCA PDT meeting data issued 19 April 2005)We presently have 2 deployments underway that are coordinated through JTF-North. These deployments total 90 soldiers constructing patrol road, bollard fence and low water crossings on the patrol roads.

Additionally, 2.5 miles of new lighting has been energized east of the POE in Naco. This lighting is bollard with vandal shields and should be operational by the date of the PDT meeting.

1 April 2005 Uploaded the 22 March 2005 PDT meeting minutes to the AERC Server under file (b) (7)(E) April deployment into Naco is up as noted in the PDT meeting minutes. Procurement was to be in place by 28 March 2005 with expenditures billed to Naco Roadway RWA....12 March 2005 The Tucson Sector (TCA) Project Delivery Team (PDT) will have it's next regularly scheduled meeting on 22 March at the Tucson Station. The web page has come online for the Arizona National Guard IRT Program: (b) (7)(E) Construction progress can be reviewed at: (b) (7)(E) -Click on the Client Link link at the left of the page. -Select Border Patrol Construction Oversight from the drop-down menu. -For a User Name enter: (b) (7)(E)-For a Password enter: (b) (7)(E)

The following files have been uploaded to the AERC web page: TCA PDT Meeting Minutes from 22 March (b) (7)(E) TCA PDT Update Document (b) (7)(E)

28 February 2005 uploaded the Tucson Sector (TCA) Project Delivery Team (PDT) Meeting Minutes Tuesday (22 February 2005) (022205.pdf). This month the Alaska Army National Guard successfully completed a deployment into Douglas at Whitewater Draw to place roadway wearing surface and drainage features. By all accounts, the deployment went well. We are gearing up for 2 deployments sourced through JTF-N to begin in early April. These will be into Naco Arizona, both east and west of the POE for roadway water crossings and bollard fencing. Regarding the San Pedro LWC, uploaded the AutoCAD file and background tiff image at: (b) (7)(E)

30 January 2005 The following files have been uploaded onto the AERC webpage 012505.pdf conta TCA PDT Meeting minutes from 25 January 2005. We are gearing up for a deployment in Douglas b Alaska National Guard to begin 12 February. This deployment will complete the roadway and geofab component of the White Draw Box Culvert. Subsequent deployments sourced through JTF-North are scheduled to begin 1 April into Naco Arizona. With funding in place, environmental documents in pla deployments into the foreseeable future, and engineered construction drawings ready we are looking source construction units. This month the FY'04 funding was made available to the AERC through R Laguna Nigel setting the stage for construction.

7 January 2005 The following files have been uploaded to the AERC webpage:Naco 1.2-Mile Roadw of POE,Station 16+00 to 82+00 Construction OversightJTF-N Deployment October 3 - November 5, (b) (7)(E) ...Naco Lighting 2.5-Miles E POE Construction Oversight JTF-N Deployment October 3 - November 5, 2004 (b) (7)(E) ...Douglas 2-Miles of Roadw of Airport Road,Station 151+73 to 230+00 Construction Oversight JTF-N Deployment September 12 28, 2004 (b) (7)(E) ...Douglas Dip 5 Plt of Roadway, Station 230+00 to 334+00 and Douglas Lighting Retrofit, POE to Airport Road Construc Oversight JTF-N Deployment October 3 - November 5, 2004 (b) (7)(E) ... Nogales Landing Mat to Fence Memorandum (b) (7)(E) . As a the Tucson Sector PDT will be held on 25 January at the Tucson Station. An agenda and conference number will be issued one week before the meeting. We plan on having an Environmental Working C will start at 8:30am followed by the regular PDT at 10:00am

28 December 2004 Within the last two months four successful deployments into Naco and Douglas t concluded. These units were sourced through JTF-North: 41st Eng. Bn. From Ft. Drum New York co 1.5 miles of roadway with bollard fencing at low water crossings east of the POE in Douglas; 46th Er From Ft. Polk, LA with a split deployment – 1 mile of roadway with low water crossings in Naco, 2 mi roadway with low water crossings in Douglas – lighting retro-fit in Douglas; and 917th Prime Beef Sq from Carswell AFB, TX constructed 2.5 miles of lighting east of the POE in Naco. Uploaded the follo AERC webpage....The following files have been uploaded to the AERC web page: meeting minutes 1 December 2004 Tucson Sector PDT Meeting (122104.pdf); Tucson Sector Contact Roster (TCA PD ContactsUpdate.pdf); Project Costs for deployments into Naco and Douglas. (DGL 1.5 miles 28 Oct.) (DGL 2 miles 5 Nov.pdf), (NCO 2 miles 5 Nov.pdf), (NCO 2.5 miles lights 22 Nov.pdf)

3 December 2004 uploaded the following the AERC webpage....TCA PDT Meeting minutes of 23 No 2004 (b) (7)(E) (b)(6)(b)(7)(C)Project De (b) (7)(E) Tohono O'Odham Nation resolutions (b) (7)(E)

7 November 2004 uploaded the TCA PDT Meeting minutes of 26 November 2004 and the Rinker Mz Report (action item from the PDT). Recent weeks have involved meetings with IBWC to coordinate r Nogales needed due to complaints in Mexico about ponded water, OBP fixed the most of the pondin subsequent to the deployment in August. Realignment of Nogales roadway designs is under consid due to real estate issues. 3 deployments have just ended in Naco/Douglas with after actions reports week. revised contact information (b)(6) P.E.

(b)(6)

1 September 2004 The following files have been added to the AERC web page for the Tucson Sect Delivery Team (TCA PDT). Should you have any difficulty downloading these files or have questions regarding the documents please contact me at (b)(6)

TCA PDT Meeting Minutes of 24 August 2004 (b) (7)(E)

Whitewater Draw Project Completion Report (b) (7)(E)

Project Completion Report for Low Water Crossings in Douglas (b) (7)(E)

Project Status Report with Project Descriptions, Spending Plan, and Summary of Completed Project (b) (7)(E)

Project Management Plan August 2004 (b) (7)(E)

Project Completion Report for Naco work FY'04 (b) (7)(E)

Spending plan FY'05 through FY'11 (b) (7)(E)

Map of Naco Projects (large file) (b) (7)(E)

Map of Douglas Projects (large file) (b) (7)(E)

Map of Nogales Projects (b) (7)(E)

Sonoita Corridor Report (b) (7)(E)

10 August 2004: The following documents have been posted to the AERC website. Attached is a dir each document. It could take up to several minutes for the document to open, depending on your sy speed, time of day, how many people are on the site, etc. Your patience is appreciated. Tucson Sect Delivery Team update (b) (7)(E)

9 July 2004, Arizona National Guard WWD – West of DGL POE Successful mission by the Alaska N Guard in placing WWD foundation during May. Successful mission by the Oregon National Guard in WWD approaches and superstructure. Roadway Open to USBP traffic with last course of fill placed t basis. The deployment stayed an extra week, sometimes working 24/7 with rotating shifts to complet mission. Douglas Roadway West of POE .Illinois National Guard 10 July 2004 (70 troops to perform: on Kings Ranch Road; 1000' of bollard and landing mat fence - possible backup on WWD)Arizona N Guard paving WWD 6 August. Tentative May 2005 deployment from the Colorado National Guard: J Scheduled Deployments FY'04, Naco (Fence & Barriers) 917th Prime Beef Squadron 1 May - 15 Jur Douglas (LWCs 11, 12, & 13 and Bollard Fence) MWSS 373 1-30 June. (b)(6) to arrange survey s prior to unit's arrival. Naco (Low-water crossings) MWSS 371 6 Jul - 6 Aug (b)(6) Nogales, Az (Nogales 0.5 Mile Roadway just east of Deconcinni POE) 10 Jul - 23 Aug Scheduled Deployments F Possible 1 Oct. to 20 Nov. deployment into Naco and Douglas for roadway, fence, and electrical con Could be as large as 300 soldiers. ENGINEERING - Baker Eng.: 100% Plans Douglas 6 Miles west t POE Discussions centered on the Naco roadway design, especially east of the POE. Baker presente overview and detail of the design, including land ownership. This facilitated answers to questions on constructability and real estate issues. Douglas, Lighting, NTP issued, design need by September fo deployment by JTF-6, Douglas, Construction Oversight, and Staking. Douglas, International Ditch, P Design to begin, Naco, Lighting (5 Miles) Split East and West of the POE, NTP issued, Naco, Constr Oversight and Staking, Sonoita, Preliminary Design Nogales, 1-1/2 Miles Roadway (design complete Estate underway, some construction scheduled for July 2004 by JTF-6), Nogales, Construction Over Staking (pending deployment), Nogales, Aerial West of Nogales (done), Nogales, Schematic Design (complete, comments from PDT received), (b)(6) had concerns regarding 1 to 1 slopes in the fill and erosion potential., Permanent Survey Markers, being placed with deployments, Temporary Vehi Barriers (SON, NGL, TUC Stations). note EA development below. ENVIRONMENTAL: PEIS Tucson (AERC 225), GSRC has received information from the Tucson Sector concerning the ABC Plan and currently trying to obtain information from CBP regarding Customs operations along the Arizona Bor GSRC anticipates submitting a predraft PEIS 16 July 2004 pending receipt of Customs information., Operations – Tucson & Yuma (AERC 51), The Tucson BA is on hold awaiting receipt of 2004 Cactus Ferruginous Pygmy-owl survey data from Arizona Ecological Services. GSRC anticipates submitting of the BA for internal review around 30 July 2004 pending receipt of survey data. (b)(6) will provide with personnel numbers for the Naco Station so (b)(6) can coordinate with the Upper San Pedro grou concerning water conservation measures. Railroad rail will be used for the temporary vehicle barriers Tucson, Nogales, and Sonoita stations (b)(6) wants to research the possibility of using the vehi barriers as mitigation for the Tucson BA. (b)(6) will contact USFWS to discuss this possibility., Wl Draw 404 Permit, Whitewater Draw Mitigation Plan was submitted to (b)(6) on 18 June 20 Contract modification for this project should be received by GSRC this week., Cabeza Prieta Road R The initial Cabeza Prieta Road Report has been finalized., Cabeza Prieta Vehicle Barrier (New Item) Worth USACE is developing a SOW for the Cabeza Prieta road EA. There are still questions on wha should be included in the SOW to avoid segmentation issues. (b)(6) will check with (b)(6) (F to determine what admin. Roads and illegal trails the Ajo station has identified for maintenance. G. E indicated preparation of the EA needs to begin ASAP because need to start vehicle barriers on Cabe ASAP. (b)(6) will set up a conference call for 13 July 2004 to discuss and develop a SOW. Any E/ involving a project on the Cabeza will have to include all actions currently proposed in that area. For the recent request for road maintenance, camp sites and in a cumulative manner, the off-road acces need to include all "foreseeable" actions in the EA was discussed. Also discussed was funding since sites and road maintenance do not fall under the Border Barriers umbrella. The actions include Tucs Yuma sectors. With respect to foreseeable actions, (b)(6) recommend that Ajo and Wellton statio all actions that may be proposed in the next 3-5yrs especially additional camps sites. The farther intc future the less detail is needed., Ephraim Ridge Reclamation, The SOW of work for Ephraim Ridge F has been submitted to contracting office at Fort Worth USACE. Anticipate delivery order being delive GSRC the week of June 28., Check Point (b)(7)(E) Near (b)(7)(E) (New Item), Funding has not been by AERC for the (b)(7)(E) checkpoint (b)(7)(E) and GSRC has not been scoped to conduct the work

time., Douglas/Wilcox RVS project, AERC still has not received any funding for Douglas/Wilcox RVS (b)(6) will follow up with HQ BOR to determine status., Nogales Schematic Design has reviewed the Nogales 10-mile road ROW 15% designs and believes the bio/CR survey corridor : 50 feet beyond the cut/fill areas in locations where the footprint is expanded and 100 feet either side road footprint where widening or cut/fill is minimal. (b)(6) questioned the need for a 100-foot survey corridor where widening or cut/fill is minimal. (b)(6) will check with (b)(6) concerning the 100 survey corridor. (b)(6) will review the equipment needed and the required turning radius of equipment. (b)(6) will send e-mail to EWG concerning his conversation with (b)(6), Tempora Barriers, The Temporary Vehicle Barriers preliminary draft EA was sent out. The deadline for comment 15 June. The draft SOW for the permanent vehicle barriers on the TON (which covers CAG and AJC) been forwarded to the Fort Worth USACE for staffing. The Notice to Proceed for the permanent vehicle EA on the TON should be submitted to GSRC the week of June 28, 2004., Sonoita Roadway, GSRC biologist will revisit some sites along the Sonoita road project on 24 June 2004. The AZ State Museum remove the remains at the cremation site and contact the tribes known to occur in the area. The remains be stored at the museum until they are claimed by a tribe., The Ajo and Tucson Station RVS EAs, the Station RVS EA is still on hold pending information regarding the access road and power ROWs, as well as alternate locations. The kick-off meeting for the Tucson RVS EA is scheduled for 23 June 2004., Naco San Pedro River low water crossing will be a concrete low water crossing located along the border. It is based on a report from HDR and the desire of the Naco Station.

14 June 2004, uploaded daily field reports (DFR 11 June 04.pdf) these can also be seen along with photos at:

(b)(6)

-Click on the Client Link link at the left of the page. -Select Border Patrol Construction Oversight from down menu. -For a User Name enter: (b)(7)(E)-For a Password enter: (b)(7)(E) (The User Name and Password are case-sensitive, so make sure you don't capitalize.) -Select the deployment you wish to view

10 June 2004, Whitewater Draw box culvert has finally been placed. This has taken several years and overcome obstacles including a 404 permit, Floodplain Use Permit, on time delivery of procured items and several deployments. The Alaska and Oregon National Guard have worked hard to deliver this successful mission. I uploaded meeting minutes from TCA PDT (052404.pdf)... current JTF-6 deployments underway in Naco fence building and Douglas for LWC east of the POE.

4 May 2004 uploaded TCA PDT meeting minutes of 27 April (042704.pdf) and Sonoita Station Corridor by Baker Engineering (Corridor Report.pdf).... added 11 May daily field reports (dfr 05 04 04.pdf)

7 April 2004 Engineering Oversight: Douglas lighting retrofit coordination, BLM land ownership data (site visit Douglas & Naco for After Action Review by JTF-6, coordination of procurement for deployment coordination of field changes for deployments, coordination of ROW/ROE issues in NGL. Environmental Oversight; Continue development of San Pedro crossing solutions for Naco BA, Cabeza Prieta EA coordination, Communication of EA & FONSI data to JTF-6. Task Three – Administration: Special as on video conference with D.C. for TCA PDT, monthly update to AERC web page, Project Description revision, admin record update, updated contacts list, deployment schedules revised and issued after Redhorse cancellation WWD procurement assistance to AERC, provided data on RVS & contacts to RVS Specialist. 29 March 2004 uploaded PDT meeting Minutes and Klinfelder Web Page Links for construction progress. 18 March 2004 uploaded Whitewater Draw 404 permit (WWD 404 Per.pdf) and Field Reports for this week to date (15Mar 04.pdf) and agenda for PDT meeting in Tucson 23 March (032304AD.pdf)...

8 March 2004, uploaded daily field reports from week of 5 March 04. Engineering Oversight - Douglas retrofit cost estimates and design revision discussion with Baker & Castro Electric - Site visit to Douglas 1.5 mile (east of POE), and Naco deployment site visit, coordination of field changes for deployments, coordination of ROW/ROE issues in NGL. Environmental Oversight - Discussions with L.A. regulatory regarding issuance of 404 permit Coordination on Whitewater Draw 404 permitting and mitigation continues. Administration - RVS access report trip to Douglas - 2 day field visit, monthly update to AERC web page, Spending plan revisions and development of cost estimate to complete FY'04 work contacts list, deployment schedules revised and issued admin record update, BOM development for coordinated with Baker & Az National Guard.... 27 February 2004, uploaded Daily Field Reports (DFR 04.pdf). 23 February 2004 added project locations map (project_locations.pdf) and daily field reports DGL and NCO deployments

7 February 2004 Advanced party for deployments into Naco and Douglas are on the ground, materials delivered per (b)(6) Uploaded next PDT agenda (021704AD.pdf)..4 February 2004 Deployment uploaded (FY04DEPL.PDF), TCA PDT Meeting minutes of 13 January 2004 uploaded (011304.pdf). Engineering Oversight, Projected BOMs for quickly approaching deployments, Review and tracking of Douglas 4.3 mile (west of POE), Douglas 1.5 mile (east of POE), and Naco 10 mile roadway, coordinate AzANG proposed deployments. Environmental Oversight Staff attended public scoping meeting on S Fly Catcher and reported same, Coordination on Whitewater Draw 404 permitting and mitigation coordination Administration RVS access report follow-up and prep for access location trip, monthly update to AEF

page, Developed Stormwater Pollution Prevention Plan (SWPPP) for DGL deployment as guidance
 updated contacts list, deployment schedules revised and issued Meetings with Baker on deliverables
 up on BLM conference call, admin record update, BOM revisions

9 January 2004 Engineering;100% plans and BOM coordination forwarded to JTF-6 for Douglas Feb
 deployment. Preparation for "Back Brief" to be held in El Paso on Naco & Douglas deployments. Coc
 with Sacramento on ROW & development of BOM for fence work forwarded to procurement. Environ
 All newly contracted environmental projects are now being tracked, (other items outside PDT such a
 Pipe Temp Vehicle Barriers also tracked), NEPA coordination per Shipley Group instruction. Coordin
 ROEs for bio surveys ongoing with private property owner (public lands approved); Administration, C
 incorporated on RVS access report, conference call with BLM and USBP regarding real estate issue
 the border – increase interagency coordination is a result, BOM revisions for Naco and Douglas depl
 revised several times due to comments and changed deployment resources, Publication of notice in
 paper per National Guard Bureau requirements, updated contacts list, Meetings with Baker on projec
 deliverables, meetings w/USF&W & DOI in Tucson, admin record update... 4 January 2004 uploader
 Meeting Minutes for December (121003.pdf and 112103 Conf Call.pdf)

5 December 2003 uploaded PDT minutes of 18 Novmeber (111803.pdf)PDT EWG minutes of 18 No
 (11803EWGad.pdf) and special conference call on construction QA/QC meeting minutes (1121Call.p
 (b)(6) has replaced (b)(6) with the AzANG. FONSI signed on Nogales BP Station, Nogales
 Infrastructure, and Naco-Douglas Corridor SEA. HDR activities (Engineering Oversight: Review of D
 Roadway submittal (1.5 miles east of POE) and coordination, 95% plans forwarded to JTF-6, Plans f
 to AZANG for west of DGL POE; material sources researched, deployment coordination and BOM
 development for JTF-6 deployment, Environmental Oversight: Initial coordination for ROIs and for G
 surveys has begun,Administration: RVS location and access support and report development, all cor
 plans PDFed to AzANG, project topo along the Az Border copied to FW USACE, continued SOW
 development for Baker Contract, La Tuna fabrication BOM coordination, Briefing for new Col assigne
 special meeting minutes on construction QA/QC, meetings w/ USF&W & DOI in Tucson, admin reco
 update.)

6 November 2003 recieved notification from the AzANG that the Oklahoma National Guard will be ac
 for deployment and therefore the Whitewater Draw mission may need to be rescheduled. Baker deliv
 plans for roadways east and west of the POE in Douglas and these were forwarded to the AzANG an
 Admin records for HDR program management contracts for FY'02 (DAHA90-99-D-0007) and FY'03 (1
 2C-0013) were delivered in digital format to (b)(6) 30 October 200
 uploaded TCA PDT Meeting minutes (102103.pdf) and Environmental Working Group (102103.pdf)

8 October 2003 Uploaded reports: status of NEPA Documents for TCA projects (NEPA-StatusOct20
 Daily Field Reports ending 25 September for the Naco Deployment (DFR092503.pdf); Project Delive
 meeting minutes for 23 September 2003 (092303.pdf); Project Delivery Team Environmental Workin
 meeting minutes for 23 September 2003 (092303EWG.pdf); RVS update for Tucson Sector from IMC
 03-08 Tucson Monthly Report.pdf); and Summary of NEPA Documents for projects presented in the
 Spending Plan (NEPA doc Per Project Oct 2003.pdf). Presently developing revised project descriptic
 Engineering placed under interim contract with Fort Worth USACE.

25 Sept. 2003 uploaded daily field reports from Naco deployment (DFR092103.pdf)

| Project Files | |
|----------------------------------|---|
| File Name | Title |
| 011304.pdf | TCA PDT minutes 13 January 2004 |
| 011403.pdf | 14 Jan 2003 PDT Meeting Min. |
| 012505.pdf | TCA PDT Meeting Minutes from 25 Jan. 2005 |
| 021704AD.pdf | TCA PDT Meeting Agenda 17 Feb. 2004 |
| 021803Agenda.pdf | 18 February 2003 PDT Agenda |
| 022205.pdf | TCA PDT Meeting Minutes of 22 Feb. 05 |
| 022205.pdf | 22 February 2005 TCA PDT Meeting Minutes |
| 0225PreTCA.ppt | 25 Feb Presentation |
| 031103.pdf | 11 March PDT Meeting Minutes |
| 031103Agenda.pdf | Agenda for 11 march 2003 PDT Meeting |

| | |
|--------------------------------------|--|
| 031103Signin.pdf | 11 March PDT Meeting Sign In |
| 032205.pdf | PDT Meeting 1 April 2005 |
| 032304.pdf | 23 March 04 PDT Meeting Minutes |
| 032304AD.pdf | agenda for PDT meeting 23 March 2004 |
| 0403prs.pdf | 16 April 2003 Presentation in FW |
| 040803Ag.pdf | 8 April 2003 TCA PDT Agenda |
| 042203.pdf | TCA PDT Meeting Minutes 22 April 2003 |
| 042203SI.PDF | TCA PDT Meeting Sign-in 22 April 2003 |
| 052003.pdf | Meeting Minutes From 20 May 2003 PDT Meeting |
| 052003Signin.pdf | Signin From PDT Meeting 20 May 2003 |
| 052405.pdf | TCA PDT Meeting Minutes 24 May 2005 |
| 052504.pdf | TCA PDT minutes 25 May 2004 |
| 062403.pdf | Meeting Minutes From 24 June 2003 PDT Meeting |
| 062403EWG.pdf | Meeting Minutes From 24 June 2003 EWG Agenda |
| 062805.pdf | Draft TCA PDT Meeting Minutes from 28 May 2005 |
| 070803EWG.pdf | TCA EWG meeting Minutes for 22 July 2003 |
| 071905.pdf | 7 19 July 2005 PDT Meeting Minutes |
| 072203.pdf | TCA PDT meeting Minutes for 22 July 2003 |
| 081903.pdf | PDT Meeting Minutes 19 August 2003 |
| 081903EWG.pdf | PDT Env. Working Group Minutes of 19 August 2003 |
| 081903EWGad.pdf | 19 August 2003 TCA PDT EWG Agenda |
| 082404.pdf | TCA PDT Meeting Minutes of 24 August 2004 |
| 092104.pdf | TCA PDT minutes 21 September 2004 |
| 092104AD.pdf | agenda for PDT meeting 21 September 2004 |
| 092303.pdf | 23 October 03 PDT Meeting Minutes |
| 092303EWG.pdf | 23 October 03 PDT Env. Working Group Meeting Minutes |
| 102103.pdf | 21 Oct 2003 PDT Meeting Minutes |
| 102103EWG.pdf | 21 Oct. TCA PDT Env. Working Group |
| 102604.pdf | 26 October 2004 TCA PDT Meeting Minutes |
| 102604AD.pdf | 26 October 2004 PDT Meeting Agenda |
| 111803.pdf | TCA PDT minutes 18 November 2003 |
| 112103 Conf Call.pdf | revised minutes from 21 November 2003 |
| 1121Call.pdf | Conf. Call on Const. QA/QC 21 November 2003 |
| 112304.pdf | TCA PDT Meeting Minutes of 23 Nov 2004 |
| 11803EWGad.pdf | TCA PDT EWG minutes 18 November 2003 |
| 121002.pdf | Dec. PDT Meeting |
| 121003.pdf | 9 December 2003 PDT Meeting Minutes |
| 122104.pdf | 21 Dec. TCA PDT Meeting Minutes |
| AZ engspecs-INS.doc | Specifications General for TCA PDT |
| Bil0703.pdf | June 2003 Billings for TCA PDT |
| BILjuneCOW.xls | 3 June 2003 TCA Billings by COW |

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|---|--|
| CFR30AP3.pdf | Current Funding Request 30 April 2003 |
| COCHIS-6.pdf | From IBWC - Cochise County Easements (Large File) |
| Corridor Report.pdf | Sonoita Corridor Report (Engineering) |
| dfr 05 04 04.pdf | Daily Feild Reports 7 May 04 |
| DFR 11 June 04.pdf | Daily Feild Reports 11 June 04 |
| DFR 27 Feb 04.pdf | Daily Field Reports 27 Feb 04 |
| DFR 5 March 04.pdf | Daily Feild Reports 5 March 04 |
| DFR DGL NCO 18 Feb 04.pdf | Daily Feild Reports 18 Feb 04 |
| DFR090203.pdf | daily feild reports 3 Sept. 03 Naco deployment |
| DFR092103.pdf | Daily Feild Reports Sept. 21 03 Naco Deployment |
| DFR092503.pdf | Daily Feild Reports Oct 25 03 Naco Deployment |
| DFR15 Mar04.pdf | Daily Feild Reports 15 March 04 |
| DFR42503.pdf | Daily Field Reports, Naco, 25 April 2003 |
| DFRWWD.pdf | daily field reports DGL 15 March 03 deployment |
| DGL 1.5 miles 28 Oct.pdf | Project Costs DGL Deployment 28 Oct |
| DGL 2 miles 5 Nov.pdf | Project Costs DGL 5 Nov Deployment |
| Douglas Station.pdf | Douglas Map Projects FY'05 |
| Douglas04.zip | Douglas West (5 miles plus from POE) |
| FenceAltReport.pdf | Alternative Fence Designs |
| FenceExt.pdf | Fence Extension Design |
| FY04DEPL.PDF | FY04 Deployments |
| fy05deployments.pdf | FY'05 Deployments |
| GAO Report.pdf | GAO Report on Interagency Coordination |
| HalfMile.ZIP | Nogales 1/2 Mile Plans |
| JuneUploads.zip | June Uploads/Spending Plan |
| kings.zip | Kings Ranch Design |
| Kleinfelder Website.htm | Kleinfelder Website with Const. Progress Reports |
| LESSONSLARNED2002.PDF | LESSONS LEARNED 2002 NOTES |
| MFRNGL05.pdf | Memo on Landing Mat to Bollards in Nogales |
| Mtg150503.pdf | 15 May 2003 Meeting Minutes TCA & AzANG |
| Naco Station.pdf | Naco Map Projects FY'05 |
| Nacoeastlighting.pdf | Naco East Lighting Design |
| Nacolightingfull.pdf | Naco Lighting Design |
| Nacolightingfull.pdf | Naco Lighting Design |
| NacoWaterlineReplacement (West).pdf | Naco Waterline |
| NCO 2 miles 5 Nov.pdf | Project Costs NCO 5 Nov. Deployment |
| NCO 2.5 miles lights 22 Nov.pdf | Project Costs for NCO Lighting Deployment 22 Nov |
| NCO10MAY.pdf | Project Completion Report Naco 4 Mile East 10 May 2005 |
| NEPA doc Per Project Oct 2003.pdf | NEPA Documents Per Spending Plan 03 |
| NEPA-StatusOct2003.pdf | NEPA Document Status as of Oct 2003 |
| Nogales Station.pdf | Nogales Map w/ Projects FY'05 |

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|---|---|
| PapagFarms.pdf | Papago Farms Project Description |
| PCP WWD june 04.pdf | Douglas Whitewater Draw Project Completion Report |
| PCR LWCs 11 12 13 DGL.pdf | Douglas PCR LWCs 11 12 13 |
| PCR Naco 4 Mile.pdf | Naco - Project Completion Report Aug 2004 |
| PCRDGL20.pdf | Project Completion Report for DGL 2 mile |
| PCRDGL20B.pdf | Project Completion Report DGL 2 miles, second deployment 05 |
| PCRNCO12.pdf | Project Completion Report for Naco 1.2 miles Const. |
| PCRNCO25.pdf | Project Completion Report for Naco 2.5 Mile Lighting |
| PDTCalFY05.pdf | FY'05 PDT Calendar |
| PDTSCHEd.pdf | TCA PDT 2003 Schedule |
| PIMAC~16.pdf | From IBWC - Pima County Easements (Large File) |
| projdes.pdf | Project Descriptions For FY'03 Construction & Design Projects |
| project_locations.pdf | project locations (engineering design only) Feb. FY04 |
| ProUp01012003.pdf | Summary Progress/Infrastructure to Date January 2003 |
| Rinker Report.pdf | Rinker Material Report for July/Aug Deployment Overage |
| RVS 03-08 Tucson Monthly Report.pdf | RVS August 2003 Tucson Monthly Report |
| SanPedro.zip | San Pedro Pre-Design |
| SANTA~20.pdf | From IBWC - Santa Cruz County Easements (Large File) |
| SP 25 AUG 04 05 through 10.pdf | spending plan 24 August 2004 |
| SP.pdf | Spending Plan April 2005 (FY05 - FY12) |
| SP0506.pdf | Spending Plan Out Years 04,05, & 06 |
| SP20SEP0405through11.pdf | spending Plan 10 September 2004 |
| TCA PMP8-25-04.pdf | TCA PMP 25 August 2004 |
| TCA PDT Contacts0705.pdf | Contact List |
| TCA_Handout.pdf | TCA PDT August Update Material |
| TCAHandout0205.pdf | TCA PDT Update for April 2005 |
| TCAHandout0904.pdf | Status Update & PMP |
| TIWAZ.pdf | TIWAZ Pro. Management Plan |

(b) (7)(E)

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|------------------------------------|------------------------------|
| whitewater.zip | waterwater draw plans |
| WillcoxEAappdx.pdf | Willcox Station EA appendix |
| WillcoxEAMain.pdf | Willcox Station EA Main text |
| WWD 404 Per.pdf | Whitewater Draw 404 permit |

Comments/Suggestions List

| Submitter's | Phone Number | Subject Of Comment/Suggestion |
|-------------|--------------|--|
| (b)(6) | (b) (6) | Project Updates March Monthly Report Add all 2003 RWA's to website |

Enter A Comment/Question

The POC for this page:

(b) (7)(E)



U.S. Customs and Border Protection

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U.S. Customs and Border Protection

ENVIRONMENTAL MATRIX

**Tucson Sector Environmental Project Status Matrix
(as of 18 July 2005)**

| Project Name | Project Description | Status | Issues (Affected Agency) |
|---|--|--|--|
| 1. Supplemental EA for Infrastructure Along the Naco-Douglas Corridor | Project includes primary fencing along the entire Douglas AO border, secondary fencing in Douglas and Naco POE areas, vehicle barriers or fences along Naco western AO, lighting, and road improvements for Naco and Douglas | Final EA released to the public in November 2003. Construction has begun on some items around Douglas and Naco POEs. | 1. A portion of the project transects the San Pedro National Riparian Conservation Area, which contains some of the critical habitat and is sensitive wildlife area (BLM). A BA is being prepared to address these issues (USFWS/BLM). |
| 2. Tucson/Yuma Programmatic EIS | Programmatic evaluation of daily operations for both sectors--includes air reconnaissance, SAR, checkpoints, dragging, patrols (particularly off-road) | Preliminary Final EIS will be sent week of 18 July for internal review. | 1. Still some confusion regarding whether infrastructure is included or not. 2. Lot of misperception that BP will go cross country over wilderness areas with no regard for the environment. |
| 3. Tucson Sector BA | Addresses daily operations of USBP within Tucson Sector | Revised Final BA expected by the middle of August—need to include data from ABCII | |
| 4. Yuma Sector BA | Addresses daily operations of USBP Tucson Sector | Received draft BO—need commitments from BP that they will implement the conservation measures | 1. Need comments from CBP HQ 2. Sonoran pronghorn on brink of extirpation 3. Jaguar critical habitat still being pushed |
| 5. Three checkpoint locations (b)(7)(E) (b)(7)(E) | Construct and operate 3 temporary checkpoints along state and Federal highways (b)(7)(E) | Final EA completed November 2003. | |

| Project Name | Project Description | Status | Issues (Affected Agency) |
|---|---|---|--|
| 6. Nogales Various Infrastructure EA | Project includes 2 miles of major roadway improvements on east side of POE, primary fencing on east side to parallel new road, installation of 15 RVS sites and continuation of current use of 69 portable light generators | Final EA completed in October 2003. | |
| 7. USBP Nogales Station EA and EBS | Acquisition of 30-acre site for permanent USBP station | Final EA completed in November 2003. | |
| 9. Rescue Beacons EA (Tohono Nation) | Installation and operation of 10 rescue beacons on Tohono O'odham Nation | Preliminary draft completed; Tohono council has objected to the beacons so draft has not been released as yet | 1. Tohono believe beacons will be used as staging area for smugglers; issue needs to be discussed in front of Council |
| 10. 27-mile Road Improvements EA, Sonoita Station | Mostly road grading with some repair/installation of drainage structures | Draft EA out for public comment. Comment period closes 20 July. | No issues yet, but most of the work is on National Forest |
| 11. 10-miles Road Construction, Nogales Station | 5 miles of major road construction and improvements on either side of Nogales POE | Need project description and footprint. | No issues yet |
| 12. Installation of Temporary Vehicle Barriers, Tucson Sector | Installation of temporary vehicles at high traffic areas anywhere within the Tucson Sector—no ground disturbance | EA completed in December 2004 | No issues—TVBs being installed at various locations |
| 13. Cabeza Prieta NWR Road Improvements and Permanent Vehicle Barriers EA | 38-45 miles of PVBs along the border with improvements to the border road; minor deviations out side of Roosevelt Reservation | Public meetings week of 18 July. Pre-draft scheduled to be submitted in October 2005 | 1. Will affect wilderness areas—need to address use of minimal tools to affect these lands 2. Will affect SOPH, but PVBs are also considered a mitigation measurs |
| 14. BMGR E Road Improvements and Permanent Vehicle Barriers EA | 36 miles of PVBs and patrol and drag roads within the Roosevelt Reservation | Final EA should be released week of 18 July | 1. Concerns that illegal traffic will shift to CPNWR |
| 15. West Arizona Tactical Infrastructure EIS | Approximately 400 miles of road improvements and construction on CPNWR, BMGR, and OPCNM | Surveys will be initiated this fall; preliminary draft to follow in the spring 2006 | 1. Wilderness areas 2. Effects to SOPH |



U.S. Customs and Border Protection

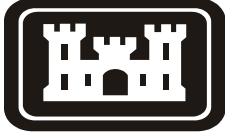
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U.S. Customs and Border Protection

PROJECT MANAGEMENT PLAN (PMP)

**SPENDING PLAN FY'05 THROUGH FY'11
TCA PDT CONTACT LIST
MEMORANDUM OF UNDERSTANDINGS**



**US Army Corps
of Engineers**



**U.S. Customs and
Border Protection**

**PROJECT MANAGEMENT PLAN
Tucson Sector Border Infrastructure System
Tucson, AZ.**

Revised 8/25/2004



AERC

U.S. ARMY CORPS OF ENGINEERS

PROJECT MANAGEMENT PLAN
Tucson Sector Border Infrastructure System

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PROJECT MANAGEMENT PLAN
Tucson Sector Border Infrastructure System

1. INTRODUCTION AND PURPOSE

This Project Management Plan (PMP) provides the framework for the execution of Corps of Engineers responsibilities related to the design, real estate acquisition, and environmental compliance including permit coordination, materials acquisition, and construction coordination with the Arizona Army National Guard for this project. It establishes the roles of the Resource Center (AERC), as the program advocate and program manager for this Department of Homeland Security (DHS) project.

This document should be utilized in conjunction with the Tucson Sector Project Delivery Team Status Update document found at:

(b) (7)(E)

This PMP identifies the Project Management Team (PDT), defines responsibilities and establishes procedures for the management of the DHS project. Roles and responsibilities of the AERC, the Office of Border Patrol (OBP), Arizona Army National Guard (Az ARNG) and the DHS are identified.

The over-riding goal of the Project Management Team is to provide the best possible service to DHS and OBP.

2. SCOPE OF WORK

The Scope of Work includes:

The AERC shall provide Project Management services, Real Estate Acquisition, Engineering Design, Environmental compliance IAW the National Environmental Policy Act, Real Estate Right of Entry and long term acquisition – which could be by title fee, easement or lease, materials acquisition associated with project construction, and coordination of construction with Az ARNG. The overall project consists of Fence, Roadway, Lighting, Cameras and any associated infrastructure for a project within the Douglas, Naco, Sonoita and Nogales stations along the US/Mexico border. A map depicting the Tucson Sector is included in Appendix 2 of this Project management Plan.

The project design consists of designing low water crossings, concrete culverts, embankments, minor bridges and other structures associated with road and fence construction along the border. The land acquisition consists of right of entry coordination, appraisal, and fee title purchase of land approximately associated with improvement along the US/Mexico border. The environmental coordination includes coordinating permits with the USACE LA District and the Arizona Department of Environmental Quality (ADEQ).

The cost of the program has evolved as new land acquisition is defined, mitigation measures and costs are refined, fence alignments and roadway are solidified and as overall construction and materials acquisition is definitized. This estimate does not include any costs for litigation, should such costs occur. It only includes costs for Project Management, Engineering Design, Environmental coordination, Real Estate acquisition, and Materials Acquisition.

Project documentation developed under this scope of work will be submitted to DHS, OBP and Az ARNG in electronic format, typically as a PDF. Specifications will be submitted in Microsoft Word. Computer-aided design and drafting (CADD) deliverables will be prepared and submitted in MicroStation. Dimensions shall be in English and metric. Project Schedules will be developed in MS Project. Project updates will be performed monthly on the AERC web page via the new project tracking system.

The AERC through Project Manager will coordinate with the Tucson Sector OBP, NLC Laguna, and the DHS HQENG Program Manager for the project. The Tucson Sector will provide local requirements regarding location, freeway access, and delineated areas.

PROJECT MANAGEMENT PLAN
Tucson Sector Border Infrastructure System

3. ORGANIZATIONS, RESPONSIBILITIES, AND AUTHORITY

a. The Portfolio Manager for Tactical Infrastructure within DHS is responsible for planning and programming funds. All decisions regarding cost and scope variations will be forwarded to DHS for approval. The Corps of Engineers will not execute any requested changes without the approval of DHS. The DHS will assure that all concerns are addressed with respect to the design. DHS will forward all review comments to the AERC for resolution prior to or during the design review process.

b. NLC Laguna (formerly known as Administrative Center Laguna) is responsible for assuring that all functional criteria and requirements are addressed. The representative from NLC Laguna will attend the bi-weekly meetings held at the either the Tucson Station BPS or Phoenix.

c. The DHS AE Resource Center, AERC, serves as the door to the Corps of Engineers, and is the Corps' primary point of contact with HQ-DHS. The Center Director is responsible for accessing the Corps' project management capacity on behalf of the DHS. Per DHS request, a Project Manager has been assigned directly to the AERC to coordinate this project. The AERC will also provide project status updates and formal communications with HQ-DHS and the Administrative Center. The majority of project funding will be provided directly to the AERC. A portion of the funding is provided directly to the Tucson Sector to procure locally available materials. The AERC procures the remainder of the materials required for the construction. The AERC will maintain specific project management authority throughout the life of the project, and is responsible for the overall project management and execution to include project quality, cost, and schedule. The assigned Project Manager is listed in Appendix 1 and is responsible for the following activities:

- (1) Providing life cycle project management from inception through project closeout. Requesting, documenting and obtaining all required funding for the project.
- (2) Providing Finance & Accounting support to the project. DHS will provide Reimbursable Work Authorizations (RWA) to the AERC, in the agreed amounts, for labor, materials and land acquisition and other support activities.
- (3) Managing the cost and schedule of all projects.
- (4) Furnishing procurement status information as required by DHS.
- (5) Negotiating and issuing modifications as required. All modifications will be approved by HQ-DHS. (This approval is a programmatic and funding approval; all contracting approvals will remain with the contracting officer and will be performed in accordance with existing COE procedures.)
- (6) Providing a completed project, reflecting the specified quality of materials and workmanship.

d. The Tucson Sector Border Infrastructure System Project Delivery Team (PDT), consists of the DHS Program Manager, DHS ACL Representative, DHS AERC Project Manager, OBP Tucson Sector, OBP Tucson Sector Maintenance, Az ARNG, and Fort Worth District personnel, BPSCC and contractor personnel. Additionally, several government agencies regularly attend the meetings and provide input such as the USF&WS, The responsibilities of DHS HQ, ACL, and AERC have been identified above. Below are the responsibilities of the remaining team members:

d. (1). OBP Tucson Sector: The sector shall assign an Assistant Chief to the project for oversight, and shall assign a BP field agent as the primary point of contact for the overall coordination and management of the project. The field agent shall coordinate directly with the BP Stations within the Tucson Sector to ensure all requirements are being met. The field agent will coordinate for all local reviews (to include Cochise and Santa Cruz counties, IBWC, and City of Nogales, and City of Douglas) meeting requirements, project tours, and with Federal, State and local elected officials. The field agent will ensure BP requirements from all stations are considered in the overall design, land acquisition and project construction.

PROJECT MANAGEMENT PLAN
Tucson Sector Border Infrastructure System

d. (2). Tucson Sector Maintenance: The Tucson Maintenance office will be responsible for procuring all locally available materials for construction. This office is responsible for any and all day-to-day maintenance of the completed portions of the project, including labor, equipment, and materials needed to maintain the infrastructure system. The Sector Maintenance staff will coordinate directly with the AERC on any materials procurement that will not be accomplished locally.

d. (3) Arizona Army National Guard: The Az ARNG will provide manpower and equipment to construct the majority of the infrastructure system. They will coordinate directly with the PDT Project Manager and the Tucson Sector for scheduling of materials delivery. The Az ARNG will also provide support to other military construction units deployed to the project. The Az ARNG shall provide close coordination, review and input to the project design. The Az ARNG shall provide detailed construction scheduling so that long range plans can be maintained for project completion.

d. (4). Fort Worth District: The Fort Worth District shall provide overall Environmental Program Management and Cultural Resources support.

d. (5) Joint Task Force North (formerly known as Joint Task Force Six or JTF-6) The JTF-6 will provide manpower and equipment to construct the majority of the infrastructure system. They will coordinate directly with the PDT Project Manager and the Tucson Sector for scheduling of materials delivery. The JTF-6 will also provide support to other military construction units deployed to the project. The JTF-6 shall provide close coordination, review and input to the project design. The JTF-6 shall provide detailed construction scheduling so that long range plans can be maintained for project completion.

d. (6) Border Patrol Special Coordination Center, BPSCC, provided coordination between the Tucson Sector and the military. BPSCC processes requests for assistance through to the National Guard Bureau and JTF-6.

d. (7). There will be contractor personnel performing project management, engineering design services and environmental compliance services. The AERC will coordinate, negotiate and monitor program management and engineering design contractors. The Fort Worth District Environmental Program Manager will coordinate, negotiate and monitor the Environmental compliance contracts. Contractor will also provide quality control and survey services for all construction activities performed by Az ARNG units. Contractor personnel will ensure that as-built drawings are prepared that are adequate to meet future maintenance requirements. Contractor personnel will provide Environmental Project Management to include: coordinate all permit actions; NEPA requirements; mitigation plans/designs; and cultural resource requirements. The Environmental Project Manager will also coordinate permit and NEPA processes with other county, state and federal agencies for completion of the environmental documents. Overall the PDT is responsible for the following actions.

- (1) Developing a project strategy compatible with the customer's need, within budget, schedule, and criteria constraints.
- (2) Developing all NEPA compliance documentation, not otherwise provided by DHS, prior to real estate and construction activities commencing.
- (3) Acquiring real estate as directed by DHS.
- (4) Furnishing procurement status information as required by DHS.
- (5) Negotiating and issuing modifications as required. All modifications will be approved by HQ-DHS and by the AERC Project Manager. (This approval is a programmatic and funding approval; all contracting approvals will remain with the contracting officer and will be performed in accordance with existing COE procedures.)
- (6) Providing a completed project, reflecting the specified quality of materials and workmanship.

4. ORGANIZATIONAL BREAKDOWN STRUCTURE (OBS) AND RESPONSIBILITIES

The Project Delivery Team (PDT): The PDT is created to provide first level management in the respective organizations. The PDT will be responsible for addressing and resolving problems, recommending

PROJECT MANAGEMENT PLAN
Tucson Sector Border Infrastructure System

project acquisition strategy, assigning responsibility for implementing PDT decisions, validating actions taken by the functional elements, and completing the acquisition strategy. The points of contact (POC) for each organization listed in the paragraphs to follow are contained in Appendix 4, and an organizational chart is included in Appendix 1.

5. SCHEDULES & SPENDING PLAN

The project schedule and spending plan is maintained by the AERC PM. The project schedule is developed and maintained utilizing Microsoft Project 2000. The budget detail and spending plan is maintained in Microsoft Excel. A copy of the current schedule and spending plan is contained in Appendices 3 and 4 respectively. The PDT PM is responsible for ensuring that the schedule and spending plan are closely coordinated, accurately reflect the short term and long term goals of the PDT and the DHS and appropriately identify all anticipated project costs.

6. FUNDS MANAGEMENT

Transfer: Project funds are released by DHS to the AERC and to the Tucson Sector according to the approved spending plan. A Reimbursable Work Authorization, GSA Form 2957, will be used to transfer funds to the AERC.

Return of Excess Funds to HQ-DHS: The DHS AERC Director will promptly identify contingency funds in excess of actual project needs. When surpluses are identified, the DHS AERC Director will initiate the return of funds to DHS.

7. ACQUISITION STRATEGY

The overall acquisition plan consists of land acquisition, infrastructure design, NEPA compliance, and materials acquisition. Design and environmental compliance support is obtained by negotiated delivery orders being placed against existing IDIQ type services contracts. The Sacramento District will be responsible for either performing or contracting for all activities required to acquire the land for the project. Fort Worth District will be responsible for performing or contracting for NEPA compliance for the overall project. As mentioned previously, Tucson Sector Maintenance and the AERC will procure materials needed for construction. Equipment Rental services shall be provided to Az ARNG by the AERC thru a contract procured by the Fort Worth District.

8. SAFETY PLAN

The project team is committed to taking all reasonable precautions to protect the safety and health of government employees, contractor personnel and the public. The Az ARNG and JTF-6 are responsible for ensuring the safety of its workers during construction activities.

9. SECURITY PLAN

All site visits will be coordinated with the DHS or local OBP personnel, typically (b)(6) USACE representatives or contractors will comply with all DHS requirements for security and access control.

10. REAL ESTATE

The selection of land will be coordinated with local OBP, JTF-6 and Az ARNG to ensure footprints include construction activities. Rights of Entry will be processed so that initial topographical surveys, geotechnical investigations and environmental assessments will be performed as required per task authorized and possibly RVS sights.

11. QUALITY MANAGEMENT PLAN (QMP)

PROJECT MANAGEMENT PLAN
Tucson Sector Border Infrastructure System

It is imperative that all PDT members remain informed. All members of the PDT will receive copies of all project correspondence and schedule reports. Minutes of bi-weekly meetings will be distributed to all team members via email. All correspondence with the DHS will be coordinated through the AERC Project Manager. Overall project quality is the responsibility of all PDT members.

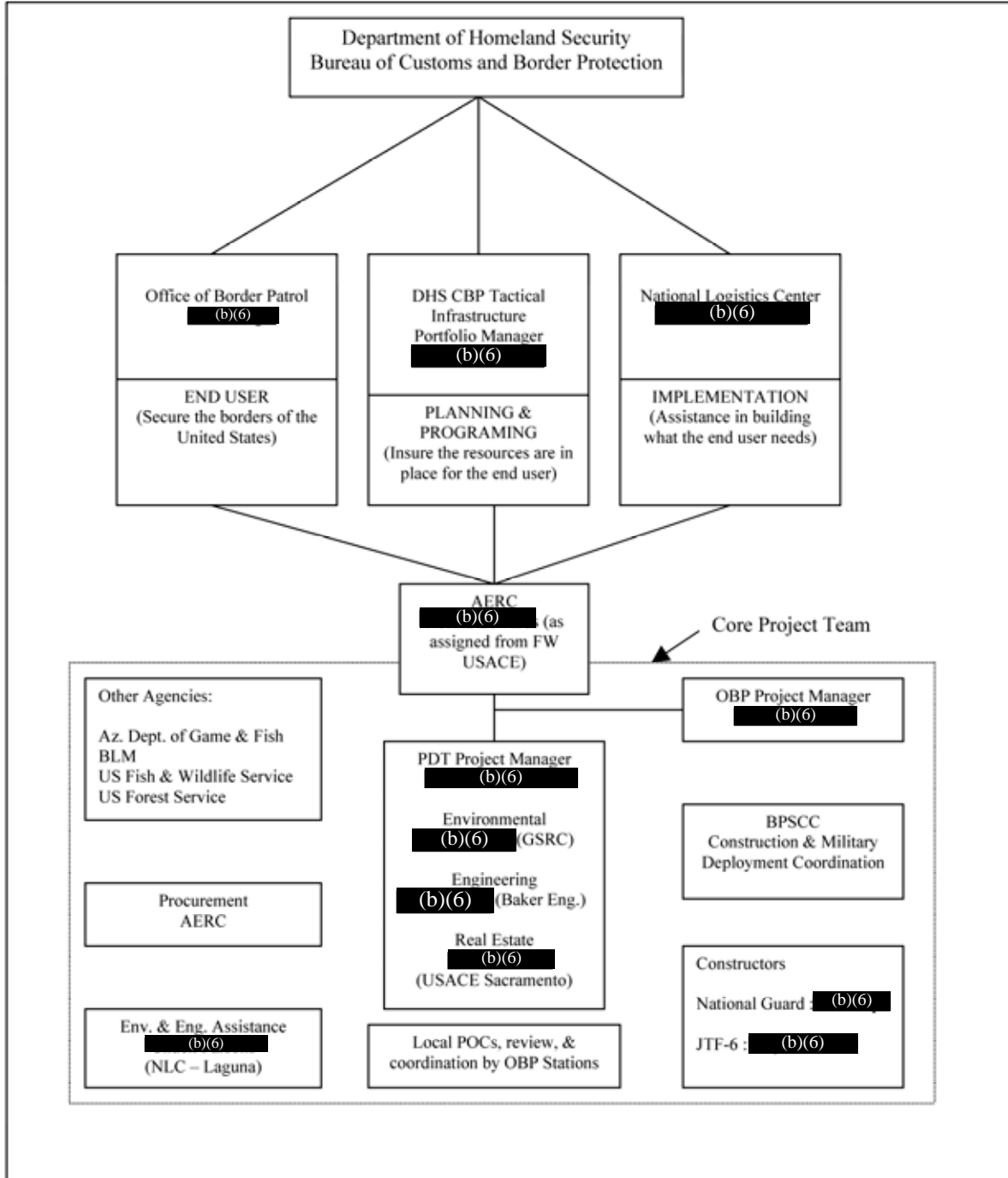
- a. **PURPOSE.** This QMP provides the general policy and guidance for establishing quality management procedures in the execution of the design and construction of the Tucson Sector Border Infrastructure program. It defines the related responsibilities and roles of the designer, constructor, and other members of the PDT in the management of quality in the construction of the project.
- b. **DEFINITIONS.**
 - i. **Quality** - conformance to properly developed requirements. In the case of the completion of the Tucson Sector Border Infrastructure Program, these requirements are contained in the specifications and drawings of the 100% construction documents.
 - ii. **Quality Design** – a design that conforms to the OBP’s requirements (functional, technical, aesthetic, environmental) and expectations, and is consistent with the appropriate technical criteria. An acceptable level of quality does not imply perfection; however there should be no compromise of functional, health or safety requirements. In addition, design modifications determined necessary during construction should be relatively minor and have minimal cost and schedule impacts.
 - iii. **Quality Verification** – the process by which the PDT determines whether the desired quality of service or product is being realized. Design quality verification includes appropriate design reviews, the biddability, constructibility, operability and environmental review process, and other reviews as necessary. Construction quality verification includes all activities necessary to manage, control and document work so as to ensure compliance with the construction plans and specifications.
- c. **RESPONSIBILITIES.**
 - i. **Constructor** - Generally, the Az ARNG, Task Force Engineer, utilizing military units from around the nation on short-term training assignments, will accomplish the work. It is the responsibility of the Az ARNG to ensure that constructed elements of the program are in full compliance with the requirements established in the construction documents. This responsibility includes ensuring that adequate quality control inspection and testing services are provided for work accomplished. For the Tucson sector a contractor will provide survey, material testing and construction inspection services.
 - ii. **Designer** – The design of architectural, structural, mechanical, electrical, civil, or other engineering features of the work shall be accomplished, reviewed and approved by architects or engineers registered to practice in the particular professional field involved in a State or possession of the United States, in Puerto Rico, or in the District of Columbia. Designers shall visit the project site prior to start of design to observe and evaluate existing field conditions, adjacent structures and other features that could have an impact on the design. Visits shall be made as necessary during design at appropriate times to ascertain compatibility of proposed design with the site, including utility connections and survey data. Designers shall coordinate as necessary with the local jurisdictions (City, County, State and Federal) to ensure that project features and design methodology complies with local requirements. The designer shall execute the work diligently and aggressively, and promptly advise the AERC PM of all significant developments adversely impacting the quality, schedule or cost of the project. The designer must give utmost attention to environmental factors in the design of facilities to eliminate or minimize environmental degradation in accordance with Federal, State, and local environmental quality laws and standards. Appropriate coordination should be conducted with the PDT to ensure that authorized, or otherwise required, environmental features have been incorporated into the project design. The design

PROJECT MANAGEMENT PLAN
Tucson Sector Border Infrastructure System

- must be submitted for formal review at the 30%, 60%, 90% and 100% stages.
- iii. **PDT EngWG Members** – participate in design discussions during PDT meetings and participate in the design reviews. Ensure that design review comments are forwarded to the AERC PM within the timeframe established for the particular review. A checklist of items to be addressed during design reviews is included below. These items are intended to be used as guidance and should not be considered as a comprehensive list.
 - d. **DESIGN REVIEWS.** Items to be addressed in design reviews performed by the EngWG include, but are not limited to, the following
 - i. Accurate depiction and adaptation of design structures and features to site conditions and restrictions such as access, utility availability, drainage, storage, existing underground utilities and general configuration.
 - ii. Appropriateness of sequencing, relationship to other work, and performance timeframe.
 - iii. Are the drawings and specifications free of ambiguities?
 - iv. Are essential details and proper verbiage included?
 - v. Do the drawings adequately depict the site environment? Will the project unnecessarily encroach on wetlands or endangered species habitat? Is erosion control adequately addressed?
 - vi. Adequacy of size and configuration of proposed facilities to meet the expected function or mission and inclusion of all necessary features.
 - vii. Compatibility of proposed installations and equipment with existing facilities for ease of maintenance and replacement.
 - viii. Adequacy of periodic inspection capability and ability to accomplish periodic maintenance.

PROJECT MANAGEMENT PLAN
Tucson Sector Border Infrastructure System

APPENDIX 1
Organizational Chart



PROJECT MANAGEMENT PLAN
Tucson Sector Border Infrastructure System

APPENDIX 2

Project Map



PROJECT MANAGEMENT PLAN
Tucson Sector Border Infrastructure System

APPENDIX 3
PROJECT SCHEDULE

| FY05 TUCSON SECTOR DEPLOYMENTS | | | | | | | | | | | | |
|--|---|-------------|-----|-----|-----|-------------|-----|-----|-------------|-----|-----|-----|
| Task Name | r | 1st Quarter | | | | 2nd Quarter | | | 3rd Quarter | | | 4th |
| | | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | |
| Naco, Az | | | | | | | | | | | | |
| JTF-6 4094-3996 (1 Mile Patrol Road w/ 6 LWCs - 46th En.Bn. split deployment) | | | | | | | | | | | | |
| JTF-6 3997-05 (5 Miles Lighting - 917th P.B.) | | | | | | | | | | | | |
| JTF-6 4000-05 (1.5 Miles Patrol Road - MWSS371) | | | | | | | | | | | | |
| JTF-6 3999-05 Barriers | | | | | | | | | | | | |
| Douglas, Az East of POE | | | | | | | | | | | | |
| JTF-6 3995-05 (2 Miles Patrol Road w/ LWCs - 41st En. Bn.) | | | | | | | | | | | | |
| JTF-6 4094-3996 (6 LWCs w/ Fence and Lighting Retrofit - 46th En.Bn. split deployment) | | | | | | | | | | | | |
| Nogales, Az | | | | | | | | | | | | |
| JTF-6 4051,4001-05 Ephraim Ridge | | | | | | | | | | | | |
| Douglas, Az (Whitewater Draw - West of POE) | | | | | | | | | | | | |
| Colorado National Guard - Complete Roadway @ WWD | | | | | | | | | | | | |
| Arizona National Guard - Paving WWD (tentative) | | | | | | | | | | | | |
| Nogales | | | | | | | | | | | | |
| Arizona National Guard - Paving 1/2 Mile (tentative) | | | | | | | | | | | | |

FOR CORRECTIONS PLEASE CONTACT
(b)(6)

as of 27 July 2004

1
Wed 7/28/04

PROJECT MANAGEMENT PLAN
Tucson Sector Border Infrastructure System

APPENDIX 4
BUDGET / SPENDING PLAN

**TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
DEPARTMENT OF HOMELAND SECURITY
BUREAU OF CUSTOMS AND BORDER PROTECTION
OFFICE OF BORDER PATROL
TUCSON SECTOR – PROJECT DELIVERY TEAM
SPENDING PLAN FY'05 THRU FY'12**

Issued 25 February 2005

Revised 30 May 2005

The following tables present the Tucson Sector spending plan for Fiscal Years Funding 2005 through 2012 and out years.

- **Table 1: FY'04 Funds** This is formatted to single page for quick reference. Information Is Summary – All Projects Subject to Training Deployment Schedules, CBP Priorities, Funding Cycles, and NEPA Compliance - Detailed Project Descriptions and Project Updates Can Be Found At:

(b) (7)(E)

- **Table 2: Construction and Prepare For FY'06 Construction with FY'05 Funds** – This is the expenditure necessary to complete all planned FY'05 construction and prepare construction drawings, and environmental documents in preparation for FY'06 construction.
- **Tables 3 thru 9: FY'06 Funds (Construction and Prepare for the Next Years Construction) thru FY' 12.** This is the funding for construction in fiscal year listed and to provide environmental, engineering and real estate documents for construction, and preparation for the next fiscal years deployment deployments.

It is assumed that little or no real estate will be acquired for these projects. The use of the 60 foot Roosevelt Reservation facilitates most projects. Construction costs are estimated based on previous experience as noted with some exceptions for specific projects: Nogales (NGL) rough terrain roadway @ (b)(5) per mile, Douglas (DGL) and Naco (NCO) @ (b)(5) landing mat fence where available @ (b)(5) per mile, lighting @ (b)(5) per mile, and bollard fence at (b)(5) per mile. Design is estimated at 35% of construction due to: 1) labor and equipment rental from the military reducing construction costs and 2) remote locations, and intense coordination issues (numerous site visits with deploying units, special phasing for unit capabilities, etc.) increasing design time and costs.

Construction is typically limited to military deployments. FY'04 had ten scheduled deployments. Joint Task Force – North out of El Paso sources active duty units and the Arizona Army National Guard sources National Guard units through the Innovative Readiness Training Program (IRT). National Guard deployments have been focused in the area west of the Port of Entry in Douglas.

Associated with this spending plan are project descriptions and location maps in a separate file. TCA represents the Tucson Sector, DGL is Douglas Station, NCO is Naco Station, NGL is Nogales Station, and SON is Sonoita Station. Projects are stationed from the Port-of-Entry (POE). As these are ongoing projects associated with a program in FY'04, the projects span several years as noted in the FY'04 spending plan. NOTE: for FY'05 and beyond individual

**TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
TCA PDT SPENDING PLAN FY'05 THRU FY'12**

project descriptions per fiscal year are included in the reference document on the AERC webpage.

FY'04 Project List: (for information and context only)

- TCA DGL 001 – A total of 16 miles roadway with associated pedestrian fence and vehicle barriers to improve OBP access and restrict cross border access, to be constructed through FY'10
- TCA DGL 002 – culvert replacement in Douglas associated with a patrol road west of the POE
- TCA DGL 003 – International Ditch Reconstruction is an earth channel parallel to the border in Douglas. East of the POE it is failing and allowing erosion to undermine the border fence.
- TCA DGL 004 – Lighting Project to illuminate 10 miles of the border in Douglas through FY'10
- TCA DGL 005 – Whitewater Draw box culvert and associated fencing and roadway to allow OBP access for interdiction of narcotic and UDA traffic.
- TCA DGL 017 – Pedestrian Fence in Douglas to secure the border from narcotics and UDA traffic.
- TCA NCO 006 – Patrol Roadway nearest the POE, under construction FY'04
- TCA NCO 007 – Naco Lighting Project to illuminate 10 miles of the border near Naco.
- TCA NCO 008 – Naco Roadways out from the POE. A total of 20 miles roadway with associated pedestrian fence and vehicle barriers to improve OBP access and restrict cross border access, to be constructed through FY'10
- TCA NCO 009 – Pedestrian Fence in Naco typically constructed along with roadways during military deployments. A total of 20 miles to be constructed through FY'10.
- TCA NGL 010 – Currently designed roadway project (2 miles of roadway E. of POE)
- TCA NGL 011 – Ephraim Ridge Reclamation
- TCA NGL 012 – Nogales patrol roads to facilitate interdiction of narcotics and apprehension of illegal aliens. A total of 4 miles roadway with associated pedestrian fence and vehicle barriers to improve OBP access and restrict cross border access, to be constructed through FY'10
- TCA NGL 013 – Vehicle Barriers, both temporary and permanent for Nogales, Sonoita, Tucson, Casa Grande, and Ajo Stations to restrict cross border traffic by narcotics smugglers and illegal aliens.
- TCA NGL 014 – Tunnel Access Improvements in Nogales under the Deconcini POE to facilitate agent entries to interdict narcotics and apprehend illegal aliens.
- TCA NGL 015 – Lighting between Deconcini and Mariposa POE must be relocated closer to the border to reduce the enforcement zone and improve illumination of the border.
- TCA SON 016 – Patrol Roadway in the Sonoita Station Area of Operation (AO). A total of 8 miles roadway in Sonoita with associated pedestrian fence and vehicle barriers to improve OBP access and restrict cross border access, to be constructed through FY'10.

FY'05 Project List

Roadway Project #1: Douglas Arizona area. Total of 16 miles of all weather patrol

**TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
TCA PDT SPENDING PLAN FY'05 THRU FY'12**

roadway with associated pedestrian fence and vehicle barriers to improve Border Patrol access and restrict cross border access. Construction will continue beyond FY 09.

Fencing Project #2: Douglas Arizona area. International Ditch Reconstruction in an earth channel parallel to the border east of the port of entry that is failing and allowing erosion to undermine the border fence.

Lighting Project #3: Douglas Arizona area. From approximately two miles east and one mile west of the Douglas port of entry, build 2.5 miles of permanent lighting going east and 2.5 miles of permanent lighting west.

Roadway & Fencing Project #4: Douglas Area. Build box culvert and associated roadway at Whitewater Draw in Douglas, Arizona. Build bollard fence for the channel area to allow water to flow freely, but eliminate pedestrian access across the border.

Lighting Project #5: Naco Area. Approximately 1 mile east and 1 mile west of the Naco Port-of-Entry lighting 2.5 miles east and 2.5 miles west.

Roadway Project #6: Naco Area. Build all weather patrol road beginning from a location from 2.5 miles west of the Naco port of entry and continuing 6 miles west; and beginning from a location 2.5 miles east of the port of entry and continuing 4 miles east.

Roadway Project #7: Sonoita Area. Build .5 miles improved existing roadway as part of a 25 mile all weather road improvement multi-year project.

Fencing Project #8: Douglas Area. Build pedestrian fence in Douglas.

Vehicle Barriers Project #9: Construct and deploy temporary vehicle barriers on the border in the vicinity of Ajo, Casa Grande, Sonoita and Tucson Border Patrol Stations.

Roadway & Fencing Project #10: Nogales Area. Build 2 miles of all weather patrol road beginning approximately 1000 feet east of the Nogales port of entry and continuing 2 miles farther east, with numerous drainage crossings and primary fencing.

Roadway Projects #11: Nogales Area. Build 1 mile all weather roadway and drainage of a 10-mile roadway project located over the area 5 miles east and 5 miles west of the Nogales port of entry.

Below is a summary of Tables 2 through 7 showing the proposed funding (expected funding) to continue the program as presented in this Spending Plan. Summation of these annual totals equals (b)(5)

- FY'05 Funds (b)(5)
- FY'06 Funds (b)(5)
- FY'07 Funds (b)(5)

**TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
TCA PDT SPENDING PLAN FY'05 THRU FY'12**

- FY'08 Funds (b)(5)
- FY'09 Funds (b)(5)
- FY'10 Funds (b)(5)
- FY'11 Funds (b)(5)
- FY'12 and Out Year Funds \$ (b)(5)

TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
TUCSON SECTOR - PROJECT DELIVERY TEAM

Table 1: FY'04 Funds and RWA's

| PROJECT | FY'04 |
|---|---------------|
| Papago Farms Camp Site in AJO Area of Operation (AO) | (b)(5) |
| DGL, Acquire USF&WS Property | |
| DGL, Complete Whitewater Draw Box Culvert (TCA DGL 005) | |
| DGL, Roadway, Temp. Vehicle Barrier, and Pedestrian Fence (TCA DGL 001) | |
| DGL, 10' CMP, Erosion Control and Monsoon Repair (TCA DGL 002) referred to as Douglas, Erosion Repair | |
| NCO, Temp Vehicle Barrier (TCA NCO 006) | |
| NCO, Naco, Roadways East and West of the POE (TCA NCO 008) | |
| NCO, Lighting 5 Miles – Split E. and W. of POE (TCA NCO 007) | |
| NGL, Construct 1.5 Miles Roadway of (TCA NGL 010) | |
| AJO, TUC, CAG Temporary Vehicle Barriers (TCA NGL 013) | |
| NGL, Ephraim Ridge (TCA NGL 011) | |
| NGL, Relocate Lighting Between POEs (TCA NGL 015) | |
| NGL, 2 Additional Roadway Miles – (TCA NGL 012) | |
| NGL, Tunnels (TCA NGL 014) | |
| SON, 5 Miles Roadway Design (TCA SON 016) | |
| PDT | |
| Totals | |

TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
TUCSON SECTOR - PROJECT DELIVERY TEAM

**Table 2: FY'05 Funds
(Construction and Prepare for the Next Years Construction)**

| PROJECT | FUNDING NEEDED |
|--|-------------------|
| <u>Procurement</u> (materials and rental equipment for deployments) | |
| <ul style="list-style-type: none"> ▪ DGL, 4 Miles Roadway (2 Miles E. and 2 Miles W. of POE - TCA DGL 001) Reference FY'05 Funding Road Project #1 ▪ DGL, Whitewater Draw Bollard Fencing (TCA DGL 005) Reference FY'05 Funding Roadway Project #4 ▪ NCO, Lighting (2.5 Miles) (Split E. and W. of POE - TCA NCO 007) Reference FY'05 Funding lighting Project #5 ▪ NCO, 2 Miles Roadway (1 Mile E. and W. of POE - TCA NCO 008) Reference FY'05 Funding Road Fence and Barriers Project #6 ▪ DGL, Primary Fencing (Cattleman's West 4 miles) TCA DGL 017 Reference FY'05 Funding Fencing Project #8 ▪ Temporary and Permanent Vehicle Barriers (Ajo, Casa Grande, Sonoita, and Tucson Stations) Reference FY'05 Funding Vehicle Barriers Project #9 | (b)(5) |
| Sub-total | |
| <u>Engineering /Environmental/Management</u> (preparation for FY'06 deployments and FY'05 construction admin.) | |
| <ul style="list-style-type: none"> ▪ DGL, Construction Oversight and Staking (TCA DGL 001) Reference FY'05 Funding Road Project #1 ▪ DGL, Whitewater Draw Oversight and Staking (TCA DGL 005) Reference FY'05 Funding Road Project #4 ▪ NCO, Construction Oversight and Staking (TCA NCO 008) Reference FY'05 Funding Road Fence and Barriers Project #6 ▪ NGL Construction Admin. (TCA NGL 010 admin for Nogales 2 miles roadway) Reference FY'05 Funding Road and Fence Project #10 ▪ NGL, 1 Miles Roadway and Drainage (TCA NGL 012) Reference FY'05 Funding Roadway Project #11 | (b)(5) |
| Sub-total | |
| Total | |

NOTE: DATA PENDING FOR THIS TABLE

TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
TUCSON SECTOR - PROJECT DELIVERY TEAM

**Table 3: FY'06 Funds
(Construction and Prepare for the Next Years Construction)**

| PROJECT | FUNDING NEEDED | |
|--|-------------------|--|
| <u>Procurement</u> (materials and rental equipment for deployments) | | |
| <ul style="list-style-type: none"> ▪ DGL, 1.5 Miles Roadway (0.5 Miles E. and 1 Miles W. of POE - TCA DGL 001) Reference FY'05 Funding Document Road Project #1 ▪ Temporary and Permanent Vehicle Barriers (Ajo, Casa Grande, Sonoita, Tucson and Nogales Stations) Reference FY'05 Funding Vehicle Barriers Project #9 ▪ NCO, 1 Mile Roadway (0.5 Mile E. and W. of POE - TCA NCO 008) Reference FY'05 Funding Road Fence and Barriers Project #6 | (b)(5) | |
| Sub-total | | |
| <u>Engineering /Environmental/Management</u> (preparation for FY'07 deployments and FY'06 construction admin.) | | |
| <ul style="list-style-type: none"> ▪ DGL, Construction Oversight and Staking (TCA DGL 001) Reference FY'05 Funding Road Project #1 ▪ DGL, Naco Roadway (TCA NCO 008) Reference FY'05 Funding Document Road Project #6 | | |
| Sub-total | | |
| Total | | |

TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
TUCSON SECTOR - PROJECT DELIVERY TEAM

**Table 4: FY'07 Funds
(Construction and Prepare for the Next Years Construction)**

| PROJECT | FUNDING NEEDED |
|---|-------------------|
| <p><u>Procurement</u> (materials and rental equipment for deployments)</p> <ul style="list-style-type: none"> ▪ DGL, 4 Miles Roadway (0.5 Mile E. and 1 Mile W. of POE - TCA DGL 001) Reference FY'05 Funding Road Project #1 ▪ DGL, International Ditch (TCA DGL 003) - Reference FY'05 Funding Document Roadway Project #2 ▪ DGL, Lighting (2 Miles Split E. and W. of POE - TCA DGL 004) Reference FY'05 Funding Lighting Project #3 ▪ DGL, Whitewater Draw Bollard Fencing (TCA DGL 005) Reference FY'05 Funding Roadway Project #4 ▪ NCO, 2 Miles Roadway (1 Mile E. and W. of POE - TCA NCO 008) Reference FY'05 Funding Road Fence and Barriers Project #6 ▪ SON, 0.5 Mile Roadway (TCA SON 016) Reference FY'05 Funding Document Road Project #7 ▪ DGL, Primary Fencing (Cattleman's West 4 miles) TCA DGL 017 Reference FY'05 Funding Document Fencing Project #8 ▪ Vehicle Barriers (Ajo, Casa Grande, Sonoita, and Tucson Stations) Reference FY'05 Funding Document Vehicle Barriers Project #9 <p style="text-align: right;">Sub-total</p> | (b)(5) |
| <p><u>Engineering /Environmental/Management</u> (preparation for FY'08 deployments and FY'07 construction admin.)</p> <ul style="list-style-type: none"> ▪ DGL, Construction Oversight and Staking (TCA DGL 001) Reference FY'05 Funding Road Project #1 ▪ DGL, Lighting (2 Miles Split E. and W. of POE - TCA DGL 004) Reference FY'05 Funding Lighting Project #3 ▪ DGL, Roadway (Design, Real Estate, and as-built survey W. of POE - TCA DGL 005) Reference FY'05 Funding Road Project #4 ▪ NCO, Construction Oversight and Staking (TCA NCO 008) Reference FY'05 Funding Road Fence and Barriers Project #6 ▪ SON, Construction Admin and Staking 0.5 Mile Roadway (TCA SON 016) Reference FY'05 Funding Document Road Project #7 <p style="text-align: right;">Sub-total</p> | |
| Total | |

TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
TUCSON SECTOR - PROJECT DELIVERY TEAM

**Table 5: FY'08 Funds
(Construction and Prepare for the Next Years Construction)**

| PROJECT | FUNDING NEEDED | |
|--|-------------------|--|
| <u>Procurement</u> (materials and rental equipment for deployments) | | |
| <ul style="list-style-type: none"> ▪ DGL, 4 Miles Roadway (1 Mile E. and 2 Miles W. of POE - TCA DGL 001) Reference FY'05 Funding Road Project #1 ▪ DGL, International Ditch (TCA DGL 003) - Reference FY'05 Funding Document Roadway Project #2 ▪ NCO, 2 Miles Roadway (1 Mile E. and W. of POE - TCA NCO 008) Reference FY'05 Funding Road Fence and Barriers Project #6 ▪ SON, 2 Miles Roadway (TCA SON 016) Reference FY'05 Funding Road Project #7 ▪ DGL, 3 Miles Pedestrian Fence (1 Mile E. and 2 Mile W. of POE - TCA DGL 017) Reference FY'05 Funding Document Fence Project #8 ▪ Vehicle Barriers (Ajo, Casa Grande, Sonoita, and Tucson Stations – TCA NGL 013) Reference FY'05 Funding Document Vehicle Barriers Project #9 ▪ NGL, 1 Mile Roadway (1 Mile E. of POE - TCA NGL 012) Reference FY'05 Funding Document Road Project #11 | (b)(5) | |
| Sub-total | | |
| <u>Engineering /Environmental/Management</u> (preparation for FY'09 deployments and FY'08 construction admin.) | | |
| <ul style="list-style-type: none"> ▪ DGL, Additional Design, Construction Oversight and Staking (TCA DGL 001) Reference FY'05 Funding Road Project #1 ▪ NCO, Construction Oversight and Staking (TCA NCO 008) Reference FY'05 Funding Road Fence and Barriers Project #6 ▪ SON, 2 Miles Roadway (TCA SON 016) Reference FY'05 Funding Road Project #7 ▪ NGL, 1 Miles Roadway, Additional Roadway Design (TCA NGL 012) Reference FY'05 Funding Roadway Project #11 | | |
| Sub-total | | |
| Total | | |

TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
TUCSON SECTOR - PROJECT DELIVERY TEAM

**Table 6: FY'09 Funds
(Construction and Prepare for the Next Years Construction)**

| PROJECT | FUNDING NEEDED | |
|--|-------------------|--|
| <u>Procurement</u> (materials and rental equipment for deployments) | | |
| <ul style="list-style-type: none"> ▪ DGL, 4 Miles Roadway (1 Mile E. and 2 Miles W. of POE - TCA DGL 001) Reference FY'05 Funding Road Project #1 ▪ DGL, International Ditch (TCA DGL 003) - Reference FY'05 Funding Document Roadway Project #2 ▪ NCO, 2 Miles Roadway (1 Mile E. and W. of POE - TCA NCO 008) Reference FY'05 Funding Road Fence and Barriers Project #6 ▪ SON, 2 Miles Roadway (TCA SON 016) Reference FY'05 Funding Road Project #7 ▪ DGL, 3 Miles Pedestrian Fence (1 Mile E. and 2 Mile W. of POE - TCA DGL 017) Reference FY'05 Funding Document Fence Project #8 ▪ Vehicle Barriers (Ajo, Casa Grande, Sonoita, and Tucson Stations – TCA NGL 013) Reference FY'05 Funding Document Vehicle Barriers Project #9 ▪ NGL, 1 Mile Roadway (1 Mile E. of POE - TCA NGL 012) Reference FY'05 Funding Document Road Project #11 | (b)(5) | |
| Sub-total | | |
| <u>Engineering /Environmental/Management</u> (preparation for FY'10 deployments and FY'09 construction admin.) | | |
| <ul style="list-style-type: none"> ▪ DGL, Additional Design, Construction Oversight and Staking (TCA DGL 001) Reference FY'05 Funding Road Project #1 ▪ NCO, Construction Oversight and Staking (TCA NCO 008) Reference FY'05 Funding Road Fence and Barriers Project #6 ▪ SON, 2 Miles Roadway (TCA SON 016) Reference FY'05 Funding Road Project #7 ▪ NGL, 1 Miles Roadway, Additional Roadway Design (TCA NGL 012) Reference FY'05 Funding Roadway Project #11 | | |
| Sub-total | | |
| Total | | |

TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
TUCSON SECTOR - PROJECT DELIVERY TEAM

**Table 7: FY'10
(Construction and Prepare for the Next Years Construction)**

| PROJECT | FUNDING NEEDED | |
|--|-------------------|--|
| <u>Procurement</u> (materials and rental equipment for deployments) | | |
| <ul style="list-style-type: none"> ▪ DGL, 4 Miles Roadway (1 Mile E. and 2 Miles W. of POE - TCA DGL 001) Reference FY'05 Funding Road Project #1 ▪ DGL, International Ditch (TCA DGL 003) - Reference FY'05 Funding Document Roadway Project #2 ▪ NCO, 2 Miles Roadway (1 Mile E. and W. of POE - TCA NCO 008) Reference FY'05 Funding Road Fence and Barriers Project #6 ▪ SON, 2 Miles Roadway (TCA SON 016) Reference FY'05 Funding Road Project #7 ▪ DGL, 3 Miles Pedestrian Fence (1 Mile E. and 2 Mile W. of POE - TCA DGL 017) Reference FY'05 Funding Document Fence Project #8 ▪ Vehicle Barriers (Ajo, Casa Grande, Sonoita, and Tucson Stations – TCA NGL 013) Reference FY'05 Funding Document Vehicle Barriers Project #9 ▪ NGL, 1 Mile Roadway (1 Mile E. of POE - TCA NGL 012) Reference FY'05 Funding Document Road Project #11 | (b)(5) | |
| Sub-total | | |
| <u>Engineering /Environmental/Management</u> (preparation for FY'11 deployments and FY'10 construction admin.) | | |
| <ul style="list-style-type: none"> ▪ DGL, Additional Design, Construction Oversight and Staking (TCA DGL 001) Reference FY'05 Funding Road Project #1 ▪ NCO, Construction Oversight and Staking (TCA NCO 008) Reference FY'05 Funding Road Fence and Barriers Project #6 ▪ SON, 2 Miles Roadway (TCA SON 016) Reference FY'05 Funding Road Project #7 ▪ NGL, 1 Miles Roadway, Additional Roadway Design (TCA NGL 012) Reference FY'05 Funding Roadway Project #11 | | |
| Sub-total | | |
| Total | | |

TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
TUCSON SECTOR - PROJECT DELIVERY TEAM

**Table 8: FY'11
(Construction and Prepare for the Next Years Construction)**

| PROJECT | FUNDING NEEDED | |
|---|-------------------|--|
| <u>Procurement</u> (materials and rental equipment for deployments) | | |
| <ul style="list-style-type: none"> ▪ DGL, 4 Miles Roadway (1 Mile E. and 2 Miles W. of POE - TCA DGL 001) Reference FY'05 Funding Road Project #1 ▪ NCO, 2 Miles Roadway (1 Mile E. and W. of POE - TCA NCO 008) Reference FY'05 Funding Road Fence and Barriers Project #6 ▪ SON, 2 Miles Roadway (TCA SON 016) Reference FY'05 Funding Road Project #7 ▪ DGL, 3 Miles Pedestrian Fence (1 Mile E. and 2 Mile W. of POE - TCA DGL 017) Reference FY'05 Funding Document Fence Project #8 ▪ Vehicle Barriers (Ajo, Casa Grande, Sonoita, and Tucson Stations – TCA NGL 013) Reference FY'05 Funding Document Vehicle Barriers Project #9 ▪ NGL Construction (TCA NGL 010) Reference FY'05 Funding Road and Fence Project #10 ▪ NGL, 1 Mile Roadway (1 Mile E. of POE - TCA NGL 012) Reference FY'05 Funding Document Road Project #11 | (b)(5) | |
| Sub-total | | |
| <u>Engineering /Environmental/Management</u> (preparation for FY'12 deployments and FY'11 construction admin.) | | |
| <ul style="list-style-type: none"> ▪ DGL, Additional Design, Construction Oversight and Staking (TCA DGL 001) Reference FY'05 Funding Road Project #1 ▪ NCO, Construction Oversight and Staking (TCA NCO 008) Reference FY'05 Funding Road Fence and Barriers Project #6 ▪ SON, 2 Miles Roadway (TCA SON 016) Reference FY'05 Funding Road Project #7 ▪ NGL Construction Admin. (TCA NGL 010) Reference FY'05 Funding Road and Fence Project #10 ▪ NGL, 1 Miles Roadway, Additional Roadway Design (TCA NGL 012) Reference FY'05 Funding Roadway Project #11 | | |
| Sub-total | | |
| Total | | |

TACTICAL INFRASTRUCTURE PROGRAM MANAGEMENT
TUCSON SECTOR - PROJECT DELIVERY TEAM

**Table 9: FY'12 and Out Year Funds
(Construction and Prepare for the Next Years Construction)**

| PROJECT | FUNDING NEEDED |
|---|-------------------|
| <p><u>Procurement</u> (materials and rental equipment for deployments)</p> <ul style="list-style-type: none"> ▪ NCO, Roadway (TCA NCO 008) Reference FY'05 Funding Road Fence and Barriers Project #6 ▪ Vehicle Barriers (Ajo, Casa Grande, Sonoita, and Tucson Stations) Reference FY'05 Funding Document Vehicle Barriers Project #9 ▪ NGL Construction Admin. (TCA NGL 010) Reference FY'05 Funding Road and Fence Project #10 <p style="text-align: right;">Sub-total</p> | (b)(5) |
| <p><u>Engineering /Environmental/Management</u> (preparation for FY'13 deployments and FY'12 construction admin.)</p> <ul style="list-style-type: none"> ▪ Vehicle Barriers (Ajo, Casa Grande, Sonoita, and Tucson Stations) Reference FY'05 Funding Document Vehicle Barriers Project #9 ▪ NGL Construction Admin. (TCA NGL 010) Reference FY'05 Funding Road and Fence Project #10 <p style="text-align: right;">Sub-total</p> | |
| Total | |
| | |
| | |
| | |

PROJECT MANAGEMENT PLAN
Tucson Sector Border Infrastructure System

APPENDIX 5
PROJECT DIRECTORY

Project Directory
TCA PDT CONTACT LIST
TUCSON SECTOR

Updated:

28 December 2004

| Name | Affiliation | Mailing Address | Phone #. | FAX # | Cellular # or Pager # | E-mail Address |
|--------|---|-----------------|----------|-------|--------------------------|----------------|
| (b)(6) | Arizona Game and Fish Department | (b)(6) | | | | |
| | JTF-North | | | | | |
| | National Logistics Center U.S. Customs and Border Protecti | | | | | |
| | BLM | | | | | |
| | AZ. National Guard | | | | | |
| | USBP - Sonoita | | | | | |
| | US Forest Service | | | | | |
| | Baker Engineering | | | | | |
| | Fort Worth USACE | | | | | |
| | Fisheries Biologist | | | | | |
| | AERC | | | | | |
| | USACE - Program Manager | | | | | |

Submit Changes to:

(b)(6)

Project Directory
TCA PDT CONTACT LIST
 TUCSON SECTOR

Updated:

28 December 2004

| Name | Affiliation | Mailing Address | Phone #. | FAX # | Cellular # or Pager # | E-mail Address |
|-----------------------|--|-------------------|----------|-------|--------------------------|----------------|
| | | ATTN: CESWF-EC-AM | | | | |
| (b)(6) | USBP Tucson Sector Point of Contact | (b)(6) | | | | |
| | Env. Program Manager CBP | | | | | |
| | Wildlife Biologist USFWS | | | | | |
| | USACE-Project Management Support for Others | | | | | |
| | USACE-Real Estate | | | | | |
| | JTF-North USMC Eng. Plans Officer | | | | | |
| | USBP Tucson POC | | | | | |
| | USBP Casa Grande Station | | | | | |
| | IBWC, United States Section | | | | | |
| | USBP Special Coordination Center | | | | | |
| | USBP Special Coordination Center DCPA | | | | | |
| | Gulf South Research Corp. Vice President | | | | | |
| Michael Baker Jr, Inc | | | | | | |

(b)(6)

Project Directory
TCA PDT CONTACT LIST
TUCSON SECTOR

Updated:

28 December 2004

| Name | Affiliation | Mailing Address | Phone #. | FAX # | Cellular # or Pager # | E-mail Address |
|--------|--|-----------------|----------|-------|--------------------------|----------------|
| (b)(6) | USBP - Nogales | (b)(6) | | | | |
| (b)(6) | US Forest Service | | | | | |
| (b)(6) | USBP - Naco | | | | | |
| (b)(6) | DOL-BHM | | | | | |
| (b)(6) | Az Dept. of Game & Fish | | | | | |
| (b)(6) | USBP Special Coordination Center | | | | | |
| (b)(6) | Program Manager | | | | | |
| (b)(6) | USBP Douglas Station | | | | | |
| (b)(6) | Project Engineer Michael Baker Jr., Inc. | | | | | |
| (b)(6) | GSRC | | | | | |
| (b)(6) | Phelps Dodge Mining Company Materials Management USBP Nogales Station | | | | | |
| (b)(6) | DHS - National Logistics Center - Environmental | | | | | |

Submit Changes to:

(b)(6)

Project Directory
TCA PDT CONTACT LIST
 TUCSON SECTOR

Updated:

28 December 2004

| Name | Affiliation | Mailing Address | Phone #. | FAX # | Cellular # or Pager # | E-mail Address |
|-------------------------|----------------------------------|------------------------|----------|-------|--------------------------|----------------|
| | | Laguna Nigel, CA 92677 | | | | |
| (b)(6) | USACE FW District | (b)(6) | | | | |
| | USBP Special Coordination Center | | | | | |
| | DHS | | | | | |
| | DHS | | | | | |
| | Kleinfelder | | | | | |
| | DHS | | | | | |
| | Portfolio Manager | | | | | |
| | HQ OBP | | | | | |
| | Kleinfelder | | | | | |
| | JTF-6 | | | | | |
| Michael Baker Jr., Inc. | (b)(6) | | | | | |
| USBP - Electronics | | | | | | |

Submit Changes to:

(b)(6)

Project Directory
TCA PDT CONTACT LIST
TUCSON SECTOR

Updated:

28 December 2004

| Name | Affiliation | Mailing Address | Phone #. | FAX # | Cellular # or Pager # | E-mail Address |
|--------|--|-----------------|----------|-------|--------------------------|----------------|
| (b)(6) | USBP Douglas Station | (b)(6) | | | | |
| (b)(6) | USBP Douglas Station | | | | | |
| (b)(6) | Phelps Dodge Mining Company Project Manager IBWC | | | | | |
| (b)(6) | US Border Patrol | | | | | |
| (b)(6) | Phelps Dodge Mining Company Land & Water Dept. Az. National Guard - Douglas | | | | | |
| (b)(6) | USBP Naco Station | | | | | |
| (b)(6) | USBP Naco Station | | | | | |
| (b)(6) | AERC | | | | | |
| (b)(6) | USBP Naco Station | | | | | |
| (b)(6) | Phelps Dodge Mining | | | | | |

Submit Changes to:

(b)(6)

Project Directory
TCA PDT CONTACT LIST
TUCSON SECTOR

Updated:

28 December 2004

| Name | Affiliation | Mailing Address | Phone #. | FAX # | Cellular # or Pager # | E-mail Address |
|--------|--|-----------------|----------|-------|--------------------------|----------------|
| | Company Environmental Manager | (b)(6) | | | | |
| (b)(6) | Engineering Manager Michael Baker Jr., Inc. | | | | | |
| | DHS Space Management Specialist | | | | | |
| | A/E Resource Center | | | | | |

Submit Changes to:

(b)(6)

PROJECT MANAGEMENT PLAN
Tucson Sector Border Infrastructure System

APPENDIX 6
MEMORANDUMS OF UNDERSTANDING
MOUs with Other Agencies

MEMORANDUM OF AGREEMENT
BETWEEN
THE DEPARTMENT OF HOMELAND SECURITY
AND
THE DEPARTMENT OF THE ARMY

ARTICLE I - PURPOSE AND AUTHORITY

This Memorandum of Agreement ("MOA") is entered into by and between the U.S. Department of the Army ("DA") and the Department of Homeland Security (DHS) ("the parties") for the purpose of establishing a mutual framework governing the respective responsibilities of the parties for the provision of DA goods and services such as engineering, design, design review, project management, construction management, procurement, real estate, environmental. This MOA is entered into pursuant to the Economy in Government Act (31 U.S.C. § 1535) and the Homeland Security Act (6 U.S.C. 111, P.L. 107-296)

ARTICLE II - SCOPE

Goods and services which the DA may provide under this MOA include engineering, design, design review, project management, construction management, procurement, real estate, environmental and such other related goods or services as may be agreed upon in the future associated with DHS programs.

DHS intends to make use of the Corps of Engineers' Architect - Engineer Resource Center, located at the Southwestern Division, Dallas, Texas, for turn-key facilities services. This does not preclude DHS or any agency under DHS from dealing directly with any of the Corps' districts, research laboratories, or Centers of Expertise now or in the future.

Nothing in this MOA shall be construed to require the DHS to use the DA or to require the DA to provide any goods or services to the DHS, except as may be set forth in Support Agreements ("SA(s)").

ARTICLE III - INTERAGENCY COMMUNICATIONS

To provide for consistent and effective communication between the DA and the DHS, each party shall appoint a Principal Representative to serve as its central point of contact on matters relating to this MOA. Additional representatives may also be appointed to serve as points of contact on SAs.

ARTICLE IV - SUPPORT AGREEMENTS

In response to requests from the DHS for DA assistance under this MOA, the DA and the DHS shall conclude mutually agreed upon written SAs. Those SAs must be on either Engineer Form 4914-R or similar document containing the same information as Department of Defense Form 1144 and shall be consistent with DHS policy. SAs must include:

- a detailed scope of work statement;
- schedules;
- funding arrangements, including whether payment shall be in advance or by reimbursement;
- the amount of funds required and available to accomplish the scope of work as stated above; and
- the DHS's fund citation and the date upon which the cited funds expire for obligation purposes;
- Economy Act D&F language
- identification of individual project managers;
- identification of types of contracts to be used (if known);
- types and frequencies of reports;
- identification of which party is to be responsible for government-furnished equipment; contract administration; records maintenance; rights to data, software, and intellectual property; and contract audits;
- procedures for amending or modifying the SA; and
- such other particulars as are necessary to describe clearly the obligations of the parties with respect to the requested goods and services.

Goods or services shall be provided under this MOA only after an appropriate SA has been signed by a representative(s) of each party authorized to execute that SA. Upon signature by each parties' representative, a SA shall constitute a valid Economy in Government Act order. In the case of conflict between this MOA and a SA, this MOA shall control.

ARTICLE V - RESPONSIBILITIES OF THE PARTIES

A. Responsibilities of the Department of the Army

1. The DA shall provide the DHS with goods or services in accordance with the purpose, terms, and conditions of this MOA and with specific requirements set forth in SAs and implementing arrangements.
2. The DA shall identify authorized DA representatives to sign SAs.
3. The DA shall use its best efforts to provide goods or services either by contract or by in-house effort.
4. The DA shall provide detailed periodic progress, financial and other reports to the DHS as agreed to in the SA. Financial reports shall include information on all funds received, obligated, and expended, and on forecast obligations and expenditures.
5. The DA shall inform the DHS of all contracts entered into under each SA.

B. Responsibilities of the Department of Homeland Security

1. The DHS shall certify, prior to the execution of each SA under this MOA, that the SA complies with the requirements of the Economy in Government Act.
2. The DHS shall pay all costs associated with the DA's provisions of goods or services under this MOA in accordance with the provisions of the Economy Act and shall certify, at the time of signature of a SA, the availability of funds necessary to accomplish that SA.
3. The DHS shall ensure that only authorized DHS officials sign SAs in a manner consistent with DHS policy and procedure.
4. The DHS shall develop draft SAs to include scope of work statements.
5. The DHS shall obtain for the DA all necessary real estate interests and access to all work sites and support facilities unless otherwise agreed to in the SA, and shall perform all coordination with and obtain any permits from state and local agencies, as necessary during the execution of each SA unless otherwise agreed to in the SA.

ARTICLE VI - FUNDING

The DHS shall pay all actual costs incurred by the DA relative to the provision of goods or services under this MOA and the associated Project Management Plan. For SAs for work estimated to cost more than (b)(5) total in contracts and in-house services or (b)(5) in contracts, the DA shall bill the DHS in advance and the DHS shall provide the necessary funds in advance. For SAs for work valued at less than these amounts, the DHS may reimburse the DA for the goods or services. For these lesser requirements, the DA shall bill the DHS monthly for costs incurred, using Standard Form ("SF") 1080, Voucher for Transfers between Appropriations and/or Funds, and the DHS shall reimburse the DA within 30 days of receipt of an SF 1080.

If the DA forecasts its actual costs under a SA to exceed the amount of funds available under that SA, it shall promptly notify the DHS of the amount of additional funds necessary to complete the work under that SA. The DHS shall either provide the additional funds to the DA, require that the scope of work be limited to that which can be paid for by the then-available funds, or direct termination of the work under that SA.

Within 90 days of completing the work under a SA, the DA shall conduct an accounting to determine the actual costs of the work. Within 30 days of completion of this accounting, the DA shall return to the DHS any funds advanced in excess of the actual costs as then known, or the DHS shall provide any additional funds necessary to cover the actual costs as then known. Such an accounting shall in no way limit the DHS's duty in accordance with Article X to pay for any costs, such as contract claims or other liability, which may become known after the final accounting.

ARTICLE VII - APPLICABLE LAWS

This MOA and all documents and actions pursuant to it shall be governed by the applicable statutes, regulations, directives, and procedures of the United States. Unless

otherwise required by law, all contract work undertaken by the DA shall be governed by DA policies and procedures.

ARTICLE VIII - CONTRACT CLAIMS AND DISPUTES

All claims and disputes by contractors arising under or relating to contracts awarded by the DA shall be resolved in accordance with Federal law and the terms of the individual contract. The DA shall have dispute resolution authority for these claims. Any contracting officer's final decision may be appealed by the contractor pursuant to the Contract Disputes Act of 1978 (41 U.S.C. § 601-613). The Armed Services Board of Contract Appeals (ASBCA) is designated as the appropriate board of contract appeals. In lieu of appealing to the ASBCA or its successor, the contractor may bring an action directly to the United States Court of Federal Claims.

The DA shall be responsible for handling all litigation involving disputes and appeals, and for coordinating with the Department of Justice as appropriate. The DA shall notify the DHS of any such litigation and afford the DHS an opportunity to review and comment on the litigation proceedings and any resulting settlement negotiations.

ARTICLE IX - DISPUTE RESOLUTION

The parties agree that, in the event of a dispute between the parties, the DHS and the DA shall use their best efforts to resolve that dispute in an informal fashion through consultation and communication, or other forms of non-binding alternative dispute resolution mutually acceptable to the parties. The parties agree that, in the event such measures fail to resolve the dispute, they shall refer it for resolution to the Office of Management and Budget or such other entity as may be appropriate, such as Office of the Secretary of Defense.

ARTICLE X — RESPONSIBILITY FOR COSTS

If liability of any kind is imposed on the United States relating to the DA's provision of goods or services under this MOA, the DA will accept accountability for its actions, but the DHS shall remain responsible as the program proponent for providing such funds as are necessary to discharge the liability, and all related costs. This obligation extends to all funds legally available to discharge this liability, including funds that may be made legally available through transfer, reprogramming or other means. Should the DHS have insufficient funds legally available, including funds that may be made legally available through transfer, reprogramming or other means, they remain responsible for seeking additional funds from Congress for such purpose, although nothing in this MOA shall be construed to imply that Congress will appropriate funds sufficient to meet the liability.

Notwithstanding the above, this MOA does not confer any liability upon the DHS for claims payable by the DA under the Federal Torts Claims Act. Provided further that nothing in this MOA is intended or will be construed to create any rights or remedies for any third party and no third party is intended to be a beneficiary of this MOA.

ARTICLE XI - PUBLIC INFORMATION

Justification and explanation of the DHS's programs before Congress and other agencies, departments, and offices of the Federal Executive Branch shall be the responsibility of the DHS. The DA may provide, upon request, any assistance necessary to support the DHS's justification or explanations of the DHS's programs conducted under this MOA. In general, the DHS is responsible for all public information. The DA may make public announcements and respond to all inquiries relating to the ordinary procurement and contract award and administration process. The DHS or the DA shall make its best efforts to give the other party advance notice before making any public statement regarding work contemplated, undertaken, or completed pursuant to SAs under this MOA.

ARTICLE XII - MISCELLANEOUS

A. Other Relationships or Obligations

This MOA shall not affect any pre-existing or independent relationships or obligations between the DHS and the DA.

B. Survival

The provisions of this MOA which require performance after the expiration or termination of this MOA shall remain in force notwithstanding the expiration or termination of this MOA.

C. Severability

If any provision of this MOA is determined to be invalid or unenforceable, the remaining provisions shall remain in force and unaffected to the fullest extent permitted by law and regulation.

ARTICLE XIII - AMENDMENT, MODIFICATION AND TERMINATION

This MOA may be modified or amended only by written, mutual agreement of the parties. Either party may terminate this MOA by providing written notice to the other party. The termination shall be effective upon the sixtieth calendar day following notice, unless a later date is set forth. In the event of termination, the DHS shall continue to be responsible for all costs incurred by the DA under this MOA and for the costs of closing out or transferring any on-going contracts.

ARTICLE XIV - EFFECTIVE DATE

This MOA shall become effective when signed by both the DHS and the DA.

Department of Homeland Security

(b)(6)

(b)(6)

Director, Asset Management
Office of Administration

DATE: 1/8/04

U.S. Department of the Army

(b)(6)

(b)(6)

Deputy Director of Military Programs
US Army Corps of Engineers

DATE: 1/8/04



Memorandum of Understanding

Between



**U.S. Fish & Wildlife Service, Region 2
Buenos Aires National Wildlife Refuge
PO Box 109
Sasabe, Arizona 85633**

and

**Bureau of Homeland Security
Bureau of Customs and Border Protection
United States Border Patrol
Tucson Sector / Tucson Station**

I. INTRODUCTION

The U.S. Fish and Wildlife Service (USFWS) recognizes that the United States Border Patrol (USBP) has specific laws, policies and mandates that authorizes the detection and apprehension of illegal undocumented aliens (UDAs) entering the United States through the property of the Buenos Aires National Wildlife Refuge (Refuge). The Border Patrol recognizes that the U.S. Fish and Wildlife Service has the responsibility of managing and protecting the federally designated wildlife refuges. Heretofore, USFWS has restricted access by the Border Patrol to areas on the Refuge to prevent potential damage to the land. The USFWS proposes to use a pilot program to allow the Border Patrol more flexibility in the pursuit of the UDAs across Refuge lands.

II. PURPOSE

The purpose of this MOU is intended to jointly explore alternative methods for the Border Patrol to patrol Refuge lands which will mitigate damage to the refuge caused by illegal undocumented aliens.

III. AUTHORITY

This MOU is entered into under the Fish and Wildlife Coordination Act, the Fish and Wildlife Act of 1956, as amended, U.S. Fish and Wildlife Service policy National Wildlife Refuge System Administration Act of 1966 (16 U.S.C. 668dd-668ee), The National Wildlife Refuge System Improvement Act of 1997 and the Anti-Deficiency Act, 31 U.S.C. _1341 and the Adequacy of Appropriations Act, 41 U.S.C. _ 11.

IV. STATEMENT OF MUTUAL BENEFIT

This MOU is beneficial to the fulfillment of both parties' missions. The U.S. Border Patrol detection and apprehension of illegal undocumented aliens (UDAs) entering the United States and the U.S. Fish and Wildlife Service responsibility of managing and protecting the Federally designated Buenos Aires National Wildlife Refuge.

V. RESPONSIBILITIES

A. The U.S. Fish and Wildlife Service:

1. Grants reasonable access to the land managed by the Refuge in the immediate border area to patrol for and apprehend illegal undocumented aliens.
2. Grants reasonable access to active alien trails to USBP All Terrain Vehicles (ATVs) and motorcycles to enable the Border Patrol to patrol for, pursue and apprehend illegal undocumented aliens. The Refuge will coordinate with the Border Patrol to designate sensitive areas used by endangered species. In these areas, the horse patrol will be used in place of the ATVs and motorcycles to protect the habitat for endangered species.
3. Grants USBP reasonable access to hilltops to facilitate USBP Scope operations. The hilltops, as well as the methods of ingress and egress to those hilltops will be agreed upon by both USFWS and USBP.
4. Agrees to allow the Border Patrol to improve the existing Border Road.
5. Agrees to allow the Border Patrol to improve the Ashcraft Road.
6. Agrees to allow the Border Patrol to convert the Garcia Ranch Road to an all weather road.
7. Agrees to maintain the border road after improvements are made.
8. Agrees to maintain the Ashcraft Road after improvements are made.
9. Agrees to maintain the Garcia Ranch Road after improvements are made.

B. The U.S. Border Patrol:

1. Agrees to conduct all necessary Environmental Impact Studies associated with the improvement of the Border Road, Ashcraft Road and the Garcia Ranch Road.
2. Agrees to use only those designated hilltop scope sites agreed upon by both USFWS and USBP.
3. Agrees to abide by any of the mutually agreed upon ingress and egress stipulations associated with the use of hilltop scope sites.

VI. AGREEMENT TERM

The Buenos Aires National Wildlife Refuge and the U.S. Border Patrol agree to participate in this program for a period of one (1) year at which time the program will be re-evaluated and a new MOU put into affect.

Throughout the duration of the program, U.S. Fish & Wildlife Service and U.S. Border Patrol:

1. Agree to conduct joint surveys of the trails patrolled and the hilltops used as scope sites on a monthly basis. The representatives of both agencies will determine if the use of the trails or hilltops by USBP has created additional damage to the area and will jointly determine what action is required to mitigate that damage.
2. Agree to inform all local agencies, Federal agencies, Forest Service, Tribal Councils, private landowners of all cooperative actions and evaluate if any impacts have resulted from those actions.
3. Will evaluate those trails patrolled by Border Patrol ATVs to determine if they have been converted to roads by smugglers or the general public.
4. Will evaluate the apprehensions made of illegal aliens on or traversing the Refuge to determine if this pilot program has had any impact on that traffic.
5. Agree to enter into this pilot program in a cooperative spirit with the goal of mitigating the damage to the refuge caused by the illegal undocumented aliens.

VII. SPECIAL PROVISIONS

- A. This MOU is neither a fiscal nor a funds obligation document. Any endeavor involving reimbursement or contribution of funds between parties of this MOU will be handled in accordance with applicable laws, regulations, and procedures.
- B. This MOU may be modified or amended as necessary upon written consent of all parties or may be terminated by either party with a 60 day written notice to all other parties.
- C. The principle contacts for this MOU are:
 1. U.S. Fish and Wildlife Service:

(b)(6)

2.

(b)(6)

IN WITNESS WHEREOF, the parties hereto have caused this Memorandum of Understanding to be executed as of the date of last signature below.

U.S. Fish & Wildlife Service, Region 2
Buenos Aires National Wildlife Refuge
PO Box 109
Sasabe, Arizona 85633

(b)(6)

(b)(6)

(b)(6)

Nov. 6, 2003
Date

November 18, 2003
Date

US CUSTOMS AND BORDER PROTECTION

Border Infrastructure

Tucson Sector

Current Project Engineering Standards and Specifications:

1. Roadway Design

- a. AASHTO A Policy on Geometric Design of Highways and Streets, 2001
- b. Guidelines for Geometric Design of Very Low-Volume Local Roads (ADT<400) (2001),

Basis of Geometric Design

The geometric design of the Border Patrol infrastructure presents a unique challenge due to the vastly differing requirements needed for Border Enforcement. A set of guidelines for designing Border Patrol Infrastructure does not exist. Thus a variety of guidelines from various sources have been used.

- AASHTO (American Association of State Highway and Transportation Officials) Guidelines for Geometric Design of Very Low Volume Local Roads ADT (Average Daily Traffic) Less than or equal to 400 vehicles per day, 2001
- AASHTO (American Association of State Highway and Transportation Officials) A Policy on Geometric Design of Highways and Streets, 2001
- ADOT (Arizona Department of Transportation) – used as a reference when other codes do not apply.

Basic Design Criteria

The functional concept is important to the design. Even though many of the geometric design values could be determined without reference to a functional classification as most highway/street design requires, the design and concepts have kept in mind the overall purpose that the Border Patrol roads is intended to serve, which is enforcement of the border.

Horizontal Curvature

The horizontal alignments have been designed to provide safe, continuous operation at a speed likely to be observed under normal operating conditions for the activities of the US Border Patrol agents. Alignments have been designed to be as directional as possible. Short curves, where possible, have been avoided to allow for sufficient surveillance sight distance and erratic driver operation.

Vertical Alignments

It is generally accepted, that nearly all passenger cars can readily negotiate grades as steep as 4 to 5 percent without an appreciable loss of speed. This applies to paved streets and highways. Due to conditions posed by US Border Patrol criteria the maximum grades used are based on AASHTO (American Association of State Highway and Transportation Officials) A Policy on Geometric Design of Highways and Streets. 2001, Exhibit 6-4, page 427, Maximum Grades for Rural Collectors. Using the "Mountainous" type of terrain a design speed of 45 mph can be used for a 10 percent grade.

Vertical Curves

Vertical curves have been designed with safety, surveillance sight distance, drainage, and earthwork in mind. Speed and Stopping sight distance in sag and crest vertical curves are critical in designing the length of the curve. K values were used in determining the vertical design of the alignment. K values are described per AASHTO as the length of the vertical curve to be used divided by the algebraic difference in inbound and outbound grades of the vertical curve in percent. The K value is useful in determining the horizontal distance from the vertical point of curvature to the high point of a crest vertical curve or the low point of a sag vertical curve. K value tables are given in the AASHTO green book, 2001, exhibit 3-76, page 274 for crest verticals and Exhibit 3-79 page 280 for sag vertical curves.

The following are other criteria that have been used in the design process:

Effective Border Enforcement

This includes sight surveillance distance, proximity to the US/Mexico Border, effective design components to alleviate limited visibility areas.

Sight surveillance distance

The criteria established by DHS has been incorporated in the design of the alignments. Sharp horizontal and vertical curves have been avoided to optimize the surveillance distance Border Patrol agents require to observe activity along the US/Mexico Border.

Proximity to the Border

The roadway alignment has been designed as close to the border as grades will permit while minimizing disturbance to know environmental sensitive areas. No Geotechnical investigations have been conducted in order to establish slope rates. The "Footprint" or limits of Cut/Fill slopes have been

established by DHS, at a minimum of 25 feet from the US/Mexico Border. This minimum “Footprint” setback will provide maintenance crew ample access to the Primary Fence along the US/Mexico Border.

2. Bridge, Wall and Drainage Structure Design
 - a. AASHTO Standard Specifications for Highway Bridges, 16 edition with current interims
 - b. AASHTO/AWS-D1.5M/D1.5: 2002, Bridge Welding Code
3. Drainage Design
 - a. Pima County, Santa Cruz County & Cochise County Hydrology Manuals & Drainage Design Manuals, Prepared by each County, Department of Public Works, Flood Control Section.
 - b. Arizona Department of Water Resources (ADWR) State Standards.
 - c. Nationwide Summary of the United States Geological Survey Regional Regression Equations for Estimating Magnitude and Frequency of Floods for Ungaged Sites, 1994.
 - d. FHWA Culvert Analysis HY8, version 6.1.
4. Material Testing
 - a. Standard Specifications for Transportation Materials and Methods of Sampling and Testing, 24th Edition, and AASHTO Provisional Standards, 2004 Edition
5. Miscellaneous Minor Facilities Design
 - a. Uniform Building Code 1997 (Volumes 1, 2 and 3)
 - b. AISC, Structural Steel Design (Volumes 1 and 2)
 - c. ACI 318-02 Building Code Requirements for Structural Concrete and Commentary
6. Construction and Material Specifications
 - a. Unified Facilities Guide Specifications
 - b. Caltrans Standard Specifications English/Metric 2002 – for reference only
 - c. ADOT Standard Specifications for Road and Bridge Construction, 2000 – for reference only
7. Lighting Design
 - a. For new lighting along the border provide a minimum 3-foot candles of illumination.
 - b. NEC – National Electrical Code