Proposed Hamilton Community Park

Final Report

August 1999

Prepared for:

The City of Novato, California

Department of Parks, Recreation & Community Services

Prepared by:

BSA Architects

Carducci & Associates, Inc.

The Sports Management Group

			And the second

Hamilton Community Park

Final Report

Table of Contents

Executive Summary	***
Overview of the Project	
Recommended Next Steps	
Project Location	
Relationship to Other Projects and Plans	
Hamilton Army Air Field	
Defense Base Closure and Realignment Act of 1988	
Hamilton Master Plan Significance (October 15, 1993 and revised May 1994 and January 1998)	
Landfill 26	
Memorandum of Agreement #2976 (MOA)	(
City of Novato General Plan	(
Hamilton Field Community Recreation Facilities Implementation Plan Phase I	(
Hamilton Wetland Restoration Plan	
The Bay Trail	. (
The Landfill 26 Flood Diversion Berm	•
Remedial Action Plan for the Phase II Sale Area	-
Proposed Hamilton Meadows	
Commissary Site	5
Ad Hoc Steering Committee Planning Process	
The Ad Hoc Steering Committee Purpose	
Project Design Criteria	7
Regulatory Approvals and Comments	7
Description of the Conceptual Plan	7
"Island" Theme	
Access Control Plan	8
Vehicular Access and Parking	8
Special Event Parking Management	
Utility Infrastructure Plan	8
Park Lighting	8
Capital Cost Estimates for the Proposed Future Hamilton Community Park	q
Estimates of Operations Revenue and Expenses (as compiled by The Sports Management Group)	10
Project Funding	11
Project Phasing	11
Challenges to Phasing	11
Phasing Approach and Options	12
Introduction	13
Overview of the Project	13
Recommended Next Steps	13
Project Location	14
Relationship to Other Projects and Plans	14
Hamilton Army Air Field	14
Defense Base Closure and Realignment Act of 1988	14
Hamilton Master Plan Significance (October 15, 1993 and revised May 1994 and January 1998)	14
Landfill 26	15
The History of Landfill 26	15
Memorandum of Agreement #2976 (MOA)	15
City of Novato General Plan	16
Hamilton Field Community Recreation Facilities Implementation Plan Phase I	16
	-

Hamilton Wetland Restoration Plan	1′
The Day Trail	4.2
The Landin 20 Flood Diversion Berm.	1,
Remedial Action Plan for the Phase II Sale Area	10
1 toposed riamition Meadows	1 (
Commissary Sitc	10
Ad the Steeling Continue Planning Process.	1.0
The Ad Hoe Steering Committee Purpose	1.0
The Secring Committee Composition	1.0
Goals and Objectives of the Steeling Committee	20
rioject Description	22
Troject Design Criteria	22
riamnon waster Plan	
Significance of the Memorandum of Agreement #2976 between City of Novato and the Army	22
required AETA Minigation Measures	22
Landfill 26 Restrictions and Design Criteria for Modifications to Landfill 26 from the Army Corps of	44
Engineers	22
Draft Remedial Action Plan Significance	24
Flood Significance	24
Easements	24
Regulatory Approvals and Comments	25
TOP TELL FAIR USE Ideas Irom the Ad Hoc Steering Committee	20
Description of the Conceptual Plan	27
	27
Access Control Plan	^=
Vehicular Access and Parking	27
Special Event Farking Management	^-
i cucou iaii/ DCI vICC/ DICVCIC/DISADIEC Access and Circulation	
ounty minastructure Flair	20
raik Lighting	20
Description of Alternatives	22
Scheme 1 water I heine	20
beliefic 2 Sports Theme	20
Scheme J Nature Theme	2.2
nons considered and Not incorporated	00
Cupital Cost Estimates for the Proposed Filmire Hamilton Community Dark	
Estimates of Operations Revenue and Expenses (as compiled by The Sports Management Course)	0.4
Conceptual 1 lan implementation	20
City Council Review & Comments	20
Demondon of Existing Bunkers	20
Future Studies	36
Feasibility Study	36
CEQA Review	36
Traffic Study	36
Hydrology Study and Wetland Delineation	36
Noise Study	36
Biological Study	36
Resource Management Program	36
Coordination with Adjacent Projects	36
Project Funding	36
Project Phasing	36
Challenges to Phasing	37
Phasing Approach and Options	37
Access Control Fight	
Natural Resource Management and Monitoring Program	37
Refer to Supplemental Exhibits for the following:	38
···	461

List of Figures	39
Appendices	30
Bibliography	39
Capital Cost Estimates	39
Estimates of Operations Revenue and Expenditures (See TSMG Report)	39
Steering Committee Input	39
T 1	40

Executive Summary

Overview of the Project

As a result of the Hamilton Community Facilities Implementation Study Phase I effort it was determined that additional study was needed to more comprehensively investigate alternatives for the development of the Community Park at Hamilton as part of the Hamilton Community Facilities Implementation Plan Phase II study effort.

BSA Architects, Carducci & Associates, The Sports Management Group and CSW/Stuber Stroeh, who did the Phase I study work, were chosen to prepare this report along with a constraints map, a conceptual plan, a preliminary estimate of capital costs and a preliminary estimate of potential revenue and operating costs needed for the development of the proposed 81-acre Community Park including Landfill 26 and the adjacent abandoned ammunition bunkers.

The consultant team was directed to analyze the following issues:

- Parking and vehicular, bicycle and pedestrian circulation including access to the Bay Trail
- Special event parking management
- Significance and constraints of Landfill 26 in regard to park facilities
- Impacts of the proposed community park on the proposed Hamilton Meadows residential project
- Protection of the sensitive resources in the adjacent wildlife refuges on Ammo and Reservoir Hills
- A transition zone between the active recreation and open space areas
- Potential reuse of the existing ammunition bunkers
- Assessment of potential special events, golf driving range and a roller hockey center

The consultant team solicited input from the Army, City Staff and potential user groups and interested individuals through a series of public Steering Committee Meetings. The Novato City Council approved the Steering Committee members.

As a result of the consultant team's analysis and input from the Army, City Staff and the Steering Committee, a Conceptual Plan was prepared as a "blueprint" for a complementary mixture of recreation uses that balances development with resource protection and provides an opportunity to create a unique community park for Novato.

Recommended Next Steps

- 1. Prepare a Citywide Parks & Recreation Master Plan that has a broad view of recreation facilities in Novato and coordinate community and neighborhood facilities.
- 2. Determine priorities for the Hamilton Community Park and other Hamilton community recreation facilities.
- Search for public funding and private concessionaires who are interested in building and operating facilities at Hamilton.
- 4. Continue efforts to coordinate with adjacent projects such as other Hamilton recreation facilities, the Park Road, the Hamilton Meadows, the Landfill 26 closure, the Hamilton Wetlands, the Bay Trail, Commissary Triangle, North Hamilton Parkway and other Hamilton projects.
- There is a gravity sanitary sewer line that runs parallel with North Hamilton Parkway, along the west side of the railroad. It is at or near capacity. Further research will be needed to see if the Community Park could use this system.
- 6. Comply with and fulfill the mitigation measures attached to the Memorandum of Agreement #2976 and specified in the Environmental Assessment dated June 1997, for the conveyance of the Phase II Parcel. These National Environmental Policy Act (NEPA) mitigation measures are related to the safety of the existing bunkers, air quality during construction, access control, protection of sensitive biological communities and the development and implementation of a natural resource management plan.

Project Location

The Hamilton Army Air Field is located on the western edge of San Pablo Bay in the City of Novato, in Marin County, approximately 25 miles north of San Francisco. The Community Park is located in the northern portion of the Hamilton Reuse Area and the northern portion of the area identified as the Phase II GSA Parcel.

The area of study identified as the Community Park for this report includes approximately 81 acres and is immediately adjacent to Ammo Hill to the north and Reservoir Hill to the south. The study area includes the 26-acre Landfill 26 and its 23-acre buffer, the 25-acre abandoned Army ammunition bunkers and adjacent area, a 4-acre parcel west of Pacheco Creek and a 3-acre parcel east of Pacheco Creek.

The Community Park is accessed by vehicle via the proposed North Hamilton Parkway, via Nave Drive, via U.S. Highway 101 by using the Hamilton Field or Bel Marin Keys exits.

Relationship to Other Projects and Plans

Hamilton Army Air Field

The U.S. Army Air Corps first established the Hamilton Army Air Field in 1932 as a bombardment training post and headquarters of the 1st Wing of the Air force. Historically, up to 40,000 officers comprised the population at Hamilton. Hamilton Air Force Base played a critical role in national air defense during World War II.

The post was reorganized after World War II and became Hamilton Air Force Base. Hamilton Air Force Base was decommissioned as an active facility and made available for disposal in 1974.

Defense Base Closure and Realignment Act of 1988

The Defense Base Closure and Realignment Act of 1988(BRAC I, Public Law 100-526) required closure and disposal of various military properties and facilities still in military ownership, including Hamilton Army Air Field.

Hamilton Master Plan Significance (October 15, 1993 and revised May 1994 and January 1998)

The Hamilton Master Plan, which was approved by the City of Novato, provides a master plan for an approximately 414-acre planned community which encompasses the Hamilton Community Park and provides for a mixture of land uses including, offices, retail/office, residences, other recreation facilities, transportation corridors, open space and preservation of sensitive resource areas.

The Hamilton Army Airfield Reuse Plan was approved in October 1995 and revised in November 1996 by the Hamilton Reuse Planning Authority. The City of Novato acts on behalf of the Hamilton Reuse Planning Authority.

Landfill 26

Landfill 26 is a 26-acre landfill that has an adjoining 23-acre buffer area. The 49-acre landfill and buffer provide the most contiguous piece of land for the Community Park. Because of the development restrictions, which will be part of the covenant that will likely convey the land to the City of Novato, its use as a recreation facility is very limited.

Its most significant limitations include:

- The at-grade permanent markers, probes, survey monuments, risers, and wells that must be protected;
- no alteration of the finish grade elevation of the landfill cap can occur, and
- no excavation in the landfill cap be deeper than 12".

After landfill closure, it is expected that the City of Novato will take tittle to Landfill 26.

Memorandum of Agreement #2976 (MOA)

The Memorandum of Agreement #2976 is an agreement between the City of Novato and United States of America signed in 1997. It provides for the conveyance of the "Phase II Parcel" which includes Ammo Hill, Reservoir Hill and two parcels identified as 800A and 800B. The Phase II Parcel includes the 81-acre Community Park including Landfill 26 and the existing bunkers. The Memorandum of Agreement requires the City of Novato to comply with and fulfill the mitigation measures specified in the Environmental Assessment dated June 1997, for the conveyance of the Phase II Parcel. These National Environmental Policy Act mitigation measures are related to the safety of the existing bunkers, air quality during construction, access control, protection of sensitive biological communities and the development and implementation of a natural resource management plan.

City of Novato General Plan

The City of Novato General Plan (City of Novato Community Development Department, 1996) designates the entire former Hamilton Army Air Field as the Hamilton Reuse Area, which is subject to a broad range of goals, policies and criteria for reuse. The General Plan identifies the Community Park area and adjacent hills and Pacheco Creek as Open Space. It also identifies the use of an approximate 60-acre area for future active recreational playfields. Areas east of the park are identified as an historic bayfront area. Ammo and Reservoir Hills are identified as scenic hills and ridges and potential open space areas. The General Plan also shows the Bay Trail alignment east of the park. The Conceptual Plan for the Community Park is consistent with the General Plan Policies and Programs.

Hamilton Field Community Recreation Facilities Implementation Plan Phase I

The Hamilton Field Community Recreation Facilities Implementation Plan was presented to the Novato City Council in January 1998. It identified the Hamilton recreation facilities as an incredible opportunity for the City of Novato to provide community recreation programs in a unique natural and historic setting. The plan recommended approximately \$29 million in capital improvements in order to make the use of the facilities feasible for the recommended purposes and also recommended a Phase II study of which this report is a result of.

Hamilton Wetland Restoration Plan

The Hamilton Wetland Restoration Project is proposed east of the Community Park. As described in the Hamilton Wetland Restoration Plan EIR/EIS, (August 4, 1998), the Hamilton Wetland Restoration Plan was proposed by the California State Coastal Conservancy, San Francisco Bay Conservation Plan and Development Commission and the U.S. Army Corps of Engineers to restore tidal marsh habitat and reestablish important ecological functions at a 900-acre site located within the San Francisco Bay Estuary and including the Hamilton Army Airfield Parcel.

The Bay Trail

The Bay Trail is a network of multi-use pathways circling San Francisco and San Pablo Bays. It will encompass a 400-mile route through all nine Bay Area counties and 42 shoreline cities. The Trail offers walkers, runners, cyclists, nature lovers and hikers, young and old access to the Bay.

The Landfill 26 Flood Diversion Berm

In August 1998, a berm was built on the western edge of the buffer around Landfill 26. This berm was constructed to prevent floodwaters from the adjacent Pacheco Creek from ponding directly against the Landfill 26 cap. The berm changes the local and natural drainage pattern by preventing overflow from Pacheco Creek from flowing into the Landfill 26 drainage system and into the HAAF Airfield panhandle. With the addition of the berm, flows that would otherwise have separated from Pacheco Creek in a moderate to large flood (10 year event or larger) now flow in the direction of the creek channel and into Ignacio Reservoir.

Remedial Action Plan for the Phase II Sale Area

IT Corporation prepared an Interim Remedial Action Plan for the 800-B and Ammo Hill parcels, U.S. General Services Administration (GSA) Phase II Sale Area, at the Hamilton Army Air Field on behalf of the U.S. Army Corps of Engineers, Sacramento District, under the Total Environmental Restoration Contract. The interim remedial action report has been prepared to address soil, sediment, and groundwater contamination identified at 12 locations within the GSA Phase II Sale Area 800-B and Ammo Hill Parcels.

Proposed Hamilton Meadows

The proposed Hamilton Meadows is a 235-unit residential subdivision proposed by Shea Homes to be located south of the Landfill 26 buffer. The Shea Homes proposal is presently under the consideration of the City of Novato for a Development Plan, Master Plan Amendment, and Tentative Map.

Commissary Site

The Commissary site is a Navy-owned parcel between Christmas Tree Hill, State Access Road and the proposed North Hamilton Parkway. It is being considered for reuse by the City of Novato, the Marin College District and as a shelter for the homeless.

Ad Hoc Steering Committee Planning Process

The Ad Hoc Steering Committee Purpose

As the City of Novato was working towards acquiring land at Hamilton for the future Community Park, the City saw tremendous potential for the park. The City wanted to identify a diverse mix of potential uses. In order to assist the City with the planning of the park, the City Council choose and invited 25 different groups to serve on an Ad Hoc Steering Committee for the purpose of identifying potential uses of the future park.

Project Design Criteria

Several diverse factors contributed to the design criteria for the Community Park including the following:

- Hamilton Master Plan
- Memorandum of Agreement #2976 between City of Novato and the Army
- NEPA Mitigation Measures
- Landfill 26 Restrictions and Design Criteria for Modifications to Landfill 26 from the Army Corps of Engineers
- Draft Remedial Action Plan
- Flooding
- Easements
- Regulatory Requirements
- Top Ten Park Use Ideas from the Ad Hoc Steering Committee

Regulatory Approvals and Comments

The Community Park improvements will likely require CEQA review, regulatory review and approval by numerous regulatory bodies. Many agencies and organizations would likely review and comment on the proposed park improvements:

Description of the Conceptual Plan

"Island" Theme

The park is divided into four "islands" in response to the natural site boundaries and to provide a comfortable organization and identity for the activity areas. The Landfill 26 is identified as "The Great Meadow" because it is dominated by a grass landscape that can serve multiple purposes. "Adventure Island" is a waterfront destination for exciting social activities requiring user fees. "Sports Court Island" is

a destination adjacent to the Pacheco Creek buffer and near the park entrance for intense sport court games such as basketball, skating and volleyball that may be a healthy setting for young people to socially interact. "Community Park Drive" is a dramatic long and narrow space adjacent to the Pacheco Creek buffer that serves as the park entry drive and provides the sense of a park-like landscape.

Access Control Plan

All design recommendations include a transition and a boundary between the active use areas and the open space.

Vehicular Access and Parking

The Community Park is accessed by vehicle via the proposed North Hamilton Parkway, via Nave Drive, via U.S. Highway 101 by using the Hamilton Field or Bel Marin Keys exits. An internal park road system allows for vehicular access to off-street parking areas. Approximately 700 off-street parking spaces are provided. Each island has an appropriate amount of parking and drop-off areas conveniently located adjacent to activity areas.

Special Event Parking Management

The Community Park can accommodate special events in three areas: The south edge of the Great Meadow in the landfill buffer, west of the Great Meadow in the landfill buffer and in the Adventure Island area. Parking for special events will require special permits. Depending on the size of the event and coordination with property owners, the following options for parking management can be considered:

Utility Infrastructure Plan

The current project titled Hamilton Field Phase 2, Stage Two is providing the North Hamilton Parkway. There is a water main and joint trench (gas, telephone, cable TV and electric) stubbed at this location. There is no sanitary stub.

There is a sanitary gravity line that runs parallel with North Hamilton Parkway, along the west side of the railroad now. It is at or near capacity. Further research will be needed to see if the Community Park could use this system.

The Hamilton Meadows subdivision is going to use a pump station for its sanitary sewer system. The Community Park may be able to utilize this station.

Park Lighting

The park facilities most likely to be used at night should be lighted. Lighting should be carefully specified and arranged to provide minimal light intrusion on adjacent residential and wildlife areas. Lighted areas should be provided as follows:

- Roadway and parking lot lighting for safe use by park users during the evening hours to meet criteria
 provided by the City of Novato Police Department.
- Sports lighting on the Great Meadow to the extent that is feasible due to the limitation of the 12" foundation depth on the landfill.
- Sports lighting for the tennis courts.
- Sports lighting of the sports courts
- Activity lighting for Adventure Island.

The Great Meadow

Landfill 26 and Buffer Improvements: Provide approximately 20 acres of irrigated multipurpose turf fields for active recreation including tournament play. The presence of the existing landfill surface structures greatly limits the layout of play fields and requires the provisions adequate clearance of padded surfaces on the surface structures for player safety. The buffer improvements provide a forested canopy as a contrast to the open space provided by the meadow. Views to the northeast of the Hamilton Wetlands and agricultural areas are unimpeded.

Adventure Island

The Adventure Island provides an opportunity to create fee-based park activity areas that can provide a revenue stream to the project.

Sports Court Island

The Sports Court Island provides an opportunity to create youth-based park activity areas that can provide a healthy environment for youth and young adults to play and socialize.

Park Buildings

Several Park Buildings were designed as part to the Conceptual Plan. They are developed in a style compatible with the traditional-looking building throughout Hamilton. The buildings serve a variety of functions including gateways, focal points, comfort, refreshment and concession sales and shelter.

Capital Cost Estimates for the Proposed Future Hamilton Community Park

All costs shown are in 1999 dollars with allowance for escalation as noted below. Estimates of capital costs are based on the construction costs of similar park facilities prior to 1999. The estimates for environmental review are based on consulting costs of similar studies prior to 1999. Protracted opposition to the Community Park which could require additional studies, legal defense or project delays may add undeterminable costs to the project and are therefore not included in the estimates

PRELIMINARY ESTIMATE OF CAPITAL COSTS

Item	Item Subtota
A. Community Park Drive (3 Acres)	\$338,575
B. The Great Meadow (Landfill 26 And Buffer) (49 Acres)	\$5,021,850
C. Adventure Island (25 Acres)	\$5,530,350
D. Sports Court Island (4 Acres)	\$1,285,650
Subtotal A-D	\$12,176,425
Layout, Mobilization & Bonds (5%)	\$608,821
Design & Engineering (10%)	\$1,217,643
City Project Development & Administration (15%)	\$1,826,464
Design Contingency (10%)	\$1,217,643
Environmental Review (CEQA/NEPA Studies)	\$800,000
TOTAL A-D plus "Soft Costs"	\$17,848,995
Cost Escalation (7 years at 5% per year)	\$4,261,749
TOTAL	\$22,108,744

Estimates of Operations Revenue and Expenses (as compiled by The Sports Management Group)

The following is summary of the estimates of operations revenue and expenses as complied by The Sport Management Group. Refer to the Hamilton Community Park Expense and Revenue Analysis for an explanation of their detailed analysis.

PRELIMINARY ESTIMATE O POTENTIAL	F COST RECOVER	Y	
	Low	Average	High
Probable Annual Expense	\$1,717,000	\$1,814,000	\$1,911,000
Potential Annual Revenues	\$1,364,000	\$1,526,000	\$1,688,000
_	Worst	Average	Best
Cost Recovery Potential	71%	84%	98%
Annual Subsidy	(\$547,000)	(\$288,000)	(\$29,000)

REVENUE SUMMARY		
Description	Low	High
Adventure Island	\$977,000	\$1,191,000
Sport Court Island	\$89,000	\$115,000
The Great Meadow	\$194,000	\$246,000
Hamilton Pond	\$111,000	\$136,000
Total Potential Revenue		
(rounded)	\$1,364,000	\$1,688,000

EXPENSE SUMMARY		
Description	Low	High
Salaries & Benefits	\$616,000	\$664,000
Commodities	\$6,000	\$9,000
Marketing	\$20,000	\$25,000
Supplies	\$31,000	\$40,000
Landscaping, Maintenance,	ŕ	,
Repair & Utilities	\$1,044,000	\$1,173,000
Total Potential Revenue		
(rounded)	\$1,717,000	\$1,911,000

POTENTIAL PARTICIPATION SUMMARY				
Description	Low	High		
Adventure Island	91,000	112,000		
Sport Court Island	21,000	27,000		
The Great Meadow	44,000	56,000		
Hamilton Pond	13,000	16,000		
Total Potential Participation				
Figures	169,000	211,000		

Recommendations Based on Analysis of Operations Expense and Revenues:

- The addition of a golf driving range or a three-hole par 3-4 and 5 golf course would add significant revenue from fees and the sale of food, beverage and merchandise. The likelihood of finding a contractor for the operation of the Golf Center is increased with a driving range.
- Consider a design that would allow fee-based special events, such as children's theater, puppetry, music and other performance-based activities to be held on the Floating Stage. Relocating the entrance of Floating Stage to face Adventure Island would allow controlled access into the area.
- Dog grooming services and pet supplies would add revenues.
- The addition of the following features add significant revenues from fees and the sale of food, beverage and merchandise:
 - Two outdoor climbing walls (24' and 16')
 - Ropes course
 - Carousel
 - Train or car ride
 - Birthday party area

Project Funding

There is no funding budgeted for the project. A broad-minded approach to project funding will be necessary to implement the park improvements. Some suggestions for funding provided by the Ad Hoc Steering Committee are listed below:

- 1. Corporate Sponsorship of Specific Facilities, i.e. Sport court, fields, adventure island
- 2. User fees for certain park areas, i.e. Batting cages, water play areas, golf center
- 3. Parking meters/parking lot fee
- 4. Adopt an area program
- Sell advertising space on fencing, park benches, trash cans, signage
- Redevelopment
- 7. Hamilton Phase II park development fees and recreation/environment donation
- 8. Minimize City subsidized use of fields, courts, i.e. contracts, group user fees, rentals
- 9. Create a Friends of Hamilton non profit organization (501c3)
- 10. Park impact fees from City residential development (approximately \$125,000/year city-wide)
- 11. Use contract concessionaire to operate food pavilions, run proshop and equipment rental concession.
- 12. Apply for grants, i.e. Coastal Conservancy Grant for Bay Trail connection study
- 13. Bonds
- 14. Solicit for request for proposals from potential park operators/developers
- 15. Pursue partnerships with private and non-profit organizations.

Project Phasing

Challenges to Phasing

The lack of park funding to implement and maintain facilities is the most formidable challenge to project phasing. Phasing of improvements may be more expensive than implementing a total project because of the need for incremental and interim improvements and the need to stub underground utilities for future improvements.

The City of Novato is required to implement the mitigation measures for the Phase II Parcel. These National Environmental Policy Act mitigation measures are related to the safety of the existing bunkers, air quality during construction, access control, protection of sensitive biological comminutes and the development and implementation of a natural resource management plan. These mitigation measures would most likely take precedence over implementation of other park facilities

Phasing Approach and Options

Coordinate with the projects that develop adjacent to the Community Park and encourage those projects to assist with improvements on the park property. The construction of the Community Park Drive by the Army is a good example of the benefits of such coordination.

The design of the park is segregated into four distinct islands that can be implemented independently of each other as long as basic improvements such as roads, utilities and required mitigation measures are in place.

Implementation of the Community Park Drive to Park Circle and some necessary underground utilities are an obvious first phase. Bay Trail improvements, the Dog Park, and some simple multi-use paths would provide logical access to the park and make it available as an open space resource and expose people to the beauty and the potential of the parkland.

Vehicular access to the Great Meadow and the Adventure Island branch from Park Circle. The Great Meadow can slowly be improved for multiple uses. The Adventure Island improvements can be delayed until a concession operator is found for building and operating Adventure Island. After the bunkers are removed, the area could be redeveloped as an interim golf driving range that would provide a revenue stream to the City.

The Sports Court Island can be implemented separately from the Great Meadow and the Adventure Island. The Pacheco Creek restoration, nature trail and seasonal wetland improvements can be implemented separately from the other park improvements.

The tennis courts and supporting road and parking could be implemented separately from Adventure Island

Introduction

Overview of the Project

As a result of the Hamilton Community Facilities Implementation Study Phase I effort it was determined that additional study was needed to more comprehensively investigate alternatives for the development of the Community Park at Hamilton as part of the Hamilton Community Facilities Implementation Plan Phase II study effort.

BSA Architects, Carducci & Associates, The Sports Management Group and CSW/Stuber Stroeh, who did the Phase I study work, were chosen to prepare this report along with a constraints map, a conceptual plan, a preliminary estimate of capital costs and a preliminary estimate of potential revenue and operating costs needed for the development of the proposed 81-acre Community Park including Landfill 26 and the adjacent abandoned ammunition bunkers.

The consultant team was directed to analyze the following issues:

- · Parking and vehicular, bicycle and pedestrian circulation including access to the Bay Trail
- Special event parking management
- Significance and constraints of Landfill 26 in regard to park facilities
- Impacts of the proposed community park on the proposed Hamilton Meadows residential project
- Protection of the sensitive resources in the adjacent wildlife refuges on Ammo and Reservoir Hills
- A transition zone between the active recreation and open space areas
- Potential reuse of the existing ammunition bunkers
- Assessment of potential special events, golf driving range and a roller hockey center

The consultant team solicited input from the Army, City Staff and potential user groups and interested individuals through a series of public Steering Committee Meetings. The Novato City Council approved the Steering Committee members.

As a result of the consultant team's analysis and input from the Army, City Staff and the Steering Committee, a Conceptual Plan was prepared as a "blueprint" for a complementary mixture of recreation uses that balances development with resource protection and provides an opportunity to create a unique community park for Novato.

Recommended Next Steps

- Prepare a Citywide Parks & Recreation Master Plan that has a broad view of recreation facilities in Novato and coordinate community and neighborhood facilities.
- Determine priorities for the Hamilton Community Park and other Hamilton community recreation facilities.
- 3. Search for public funding and private concessionaires who are interested in building and operating facilities at Hamilton.
- 4. Continue efforts to coordinate with adjacent projects such as other Hamilton recreation facilities, the Park Road, the Hamilton Meadows, the Landfill 26 closure, the Hamilton Wetlands, the Bay Trail, Commissary Triangle, North Hamilton Parkway and other Hamilton projects.
- 5. There is a gravity sanitary sewer line that runs parallel with North Hamilton Parkway, along the west side of the railroad. It is at or near capacity. Further research will be needed to see if the Community Park could use this system.
- 6. Comply with and fulfill the mitigation measures attached to the Memorandum of Agreement #2976 and specified in the Environmental Assessment dated June 1997, for the conveyance of the Phase II Parcel. These National Environmental Policy Act (NEPA) mitigation measures are related to the safety of the existing bunkers, air quality during construction, access control, protection of sensitive biological communities and the development and implementation of a natural resource management plan.

Project Location

The Hamilton Army Air Field is located on the western edge of San Pablo Bay in the City of Novato, in Marin County, approximately 25 miles north of San Francisco. The Community Park is located in the northern portion of the Hamilton Reuse Area and the northern portion of the area identified as the Phase II GSA Parcel.

The area of study identified as the Community Park for this report includes approximately 81 acres and is immediately adjacent to Ammo Hill to the north and Reservoir Hill to the south. The study area includes the 26-acre Landfill 26 and its 23-acre buffer, the 25-acre abandoned Army ammunition bunkers and adjacent area, a 4-acre parcel west of Pacheco Creek and a 3-acre parcel east of Pacheco Creek.

The Community Park has the following approximate neighboring land uses:

- North: Pacheco Creek, the Bel Marin Keys Industrial Park and Ammo Hill.
- East: The proposed Bay Trail, the proposed and approximate 900-acre Hamilton Wetlands, Reservoir Hill and the proposed 235-unit Hamilton Meadows Subdivision.
- South: The proposed Hamilton Meadows Subdivision, the Northwestern Pacific Railroad (NWPRR)
 right-of-way, a high voltage electrical line transmission corridor, the proposed North Hamilton
 Parkway and the existing Commissary site.
- West: The Northwestern Pacific Railroad (NWPRR) right-of-way, a high voltage electrical line transmission corridor, the proposed North Hamilton Parkway, Christmas Tree Hill, Nave Drive and U.S. Highway 101, the Marriott Hotel, the Marin Airporter and other proposed commercial development, Pacheco Creek and the Los Robles Mobile Home Park.

The Community Park is accessed by vehicle via the proposed North Hamilton Parkway, via Nave Drive, via U.S. Highway 101 by using the Hamilton Field or Bel Marin Keys exits.

Relationship to Other Projects and Plans

Hamilton Army Air Field

The U.S. Army Air Corps first established the Hamilton Army Air Field in1932 as a bombardment training post and headquarters of the 1st Wing of the Air force, one of only three wings in the nation. The post was built on agricultural land adjacent to San Pablo Bay near the City of Novato. Conceived at a time when aviation was rapidly developing, the bombardment base was assigned the mission of defending the entire western United States, a role it retained until 1940. Historically, up to 40,000 officers comprised the population at Hamilton. Hamilton Air Force Base played a critical role in national air defense during World War II.

The post was reorganized after World War II and became Hamilton Air Force Base. Through the 1960s, the base served as a training post and alert facility for the Air Defense Command. By the end of the Vietnam War, Air Force missions were changing and the strategic value of the Hamilton Air Force Base as an interceptor base was in question. Hamilton Air Force Base was decommissioned as an active facility and made available for disposal in 1974.

Defense Base Closure and Realignment Act of 1988

The Defense Base Closure and Realignment Act of 1988(BRAC I, Public Law 100-526) required closure and disposal of various military properties and facilities still in military ownership, including Hamilton Army Air Field.

Hamilton Master Plan Significance (October 15, 1993 and revised May 1994 and January 1998)

The Hamilton Master Plan, which was approved by the City of Novato, provides a master plan for an approximately 414-acre planned community which encompasses the Hamilton Community Park and

provides for a mixture of land uses including, offices, retail/office, residences, other recreation facilities, transportation corridors, open space and preservation of sensitive resource areas.

The Hamilton Army Airfield Reuse Plan was approved in October 1995 and revised in November 1996 by the Hamilton Reuse Planning Authority. The City of Novato acts on behalf of the Hamilton Reuse Planning Authority.

The Hamilton Master Plan area properties were transferred from the Army to the New Hamilton Partnership through a series of conveyances. Phase I of the Master Plan Project generally includes the area south of the Main Gate Road. Implementation of Phase I commenced in July 1995 and is currently under construction. Buildout of Phase I is expected in 2000. Phase II of the Master Plan Project generally includes the area north of the Main Gate Road. Implementation of Phase II commenced in August 1997 and buildout is expected in 2001.

Landfill 26

Landfill 26 is a 26-acre landfill that has an adjoining 23-acre buffer area. The 49-acre landfill and buffer provide the most contiguous piece of land for the Community Park. Because of the development restrictions, which will be part of the covenant that will likely convey the land to the City of Novato, its use as a recreation facility is very limited.

Its most significant limitations include:

- The at-grade permanent markers, probes, survey monuments, risers, and wells that must be protected;
- no alteration of the finish grade elevation of the landfill cap can occur, and
- no excavation in the landfill cap be deeper than 12".

After landfill closure, it is expected that the City of Novato will take tittle to Landfill 26.

The History of Landfill 26

Before being filled, the site was a natural meadow. Before it was a meadow, it was a marsh. The bedrock is very shallow below the natural grade. Pacheco Creek flowed through the meadow. The area was part of an agricultural area, known as Marin Meadows, until the 1930s. In 1932 Marin County sold the land to the federal government for the establishment of an Army airfield. The Army used Landfill 26 (L26) as a municipal dump from the 1940s to the 1970s. The deepest part of the landfill is about 12 feet. L26 was a large and complex environmental site that warranted a deliberate approach due to the eventual residential development that will occur nearby at Hamiltion.

In the 1980s Woodward Clyde Consultants did an investigation of the conditions. In 1989 a Record of Decision was made by the federal government to stabilize the refuse. In 1992 the landfill was reevaluated. The master developer also worked with the City of Novato to prepare the Hamilton Reuse Plan. In 1992 an Explanation of Significant Differences was prepared which required the remedy at the site from stabilization of the waste to capping and groundwater containment.

In 1993 and 1994, Phase 1 and Phase 2 improvements were made to the landfill including adding wells, a drainage system, a treatment plant, an impervious membrane, and a Resource Conservation Recovery Act (RCRA) cap. In 1995, evaluation of the groundwater monitoring results indicated that pollution concentrations were low and were not moving beyond the landfill boundary. In 1996 the treatment plant was made inactive and monitoring continued. The Army plans to seek official "closure" from the regulatory agencies and move the landfill into a monitoring and maintenance period, commonly referred to as the "post-closure maintenance period". This process is scheduled to be complete in 1999.

Memorandum of Agreement #2976 (MOA)

The Memorandum of Agreement #2976 is an agreement between the City of Novato and United States of America signed in 1997. It provides for the conveyance of the "Phase II Parcel" which includes Ammo Hill, Reservoir Hill and two parcels identified as 800A and 800B. The Phase II Parcel includes the 81-acre Community Park including Landfill 26 and the existing bunkers. The Memorandum of Agreement requires

the City of Novato to comply with and fulfill the mitigation measures specified in the Environmental Assessment dated June 1997, for the conveyance of the Phase II Parcel. These National Environmental Policy Act mitigation measures are related to the safety of the existing bunkers, air quality during construction, access control, protection of sensitive biological communities and the development and implementation of a natural resource management plan.

City of Novato General Plan

The City of Novato General Plan (City of Novato Community Development Department, 1996) designates the entire former Hamilton Army Air Field as the Hamilton Reuse Area, which is subject to a broad range of goals, policies and criteria for reuse. The General Plan identifies the Community Park area and adjacent hills and Pacheco Creek as Open Space. It also identifies the use of an approximate 60-acre area for future active recreational playfields. Areas east of the park are identified as an historic bayfront area. Ammo and Reservoir Hills are identified as scenic hills and ridges and potential open space areas. The General Plan also shows the Bay Trail alignment east of the park. The Conceptual Plan for the Community Park is consistent with the following General Plan Policies and Programs:

- EN Program 45.3 Identify locations for additional community parks.
- EN Policy 47: Develop and rehabilitate appropriate parks and recreation facilities of Hamilton Field that become City-owned.
- EN Program 50.5 Work with the Marin County Open Space District and the Association Bay Area Governments to implement the trail system described in the Marin Countywide Plan and the Bay Trail.

Hamilton Field Community Recreation Facilities Implementation Plan Phase I

The Hamilton Field Community Recreation Facilities Implementation Plan was presented to the Novato City Council in January 1998. It identified the Hamilton recreation facilities as an incredible opportunity for the City of Novato to provide community recreation programs in a unique natural and historic setting. The plan recommended approximately \$29 million in capital improvements in order to make the use of the facilities feasible for the recommended purposes and also recommended a Phase II study of which this report is a result of.

The Phase I planning effort focused on:

- 1. Assessment of the existing conditions.
- 2. Develop a program of activities to potentially be offered at Hamilton.
- 3. Develop an overall implementation plan.
- 4. Study the potential for adaptive reuse of each of the existing recreation facilities.
- 5. Prepare a construction and project cost analysis.
- 6. Conduct a revenue and operation cost analysis.
- 7. Recommendations.
- 8. Review of proposed infrastructure improvements.
- 9. Approach to parking and accessibility.
- 10. Site utility systems.

Studies of Individual Buildings

- 1. Officer's Club (Hamilton Community Center)
- 2. Pool, Cabana and Bathhouse (Hamilton Aquatics Center)
- 3. Gym and Bowling Alley (Hamilton Fitness Center)
- 4. Racquetball Courts
- 5. Bachelor Officer's Quarters (Hamilton Arts Center or Bed and Breakfast Inn)
- 6. Cinema (Hamilton Community Meeting Hall or South Novato Branch Library)

Studies of Park Areas Identified for Phase II Planning Efforts

- 1. Hamilton Community Park
- 2. Amphitheater Park

Hamilton Wetland Restoration Plan

The Hamilton Wetland Restoration Project is proposed east of the Community Park. As described in the Hamilton Wetland Restoration Plan EIR/EIS, (August 4, 1998), the Hamilton Wetland Restoration Plan was proposed by the California State Coastal Conservancy, San Francisco Bay Conservation Plan and Development Commission and the U.S. Army Corps of Engineers to restore tidal marsh habitat and reestablish important ecological functions at a 900-acre site located within the San Francisco Bay Estuary and including the Hamilton Army Airfield Parcel. The objectives of this Project include ensuring a no net loss of wetland habitat at the Hamilton Army Airfield parcel. The U.S. Army anticipates transfer of the Airfield Parcel to the Coastal Conservancy by the year 2000. A condition of this transfer is remediation of contamination at the site. As a result, the Airfield Parcel is undergoing investigation and remediation of contaminated areas. All sites known to be contaminated will be remediated by the U.S. Army to levels that meet federal, state and local regulations and protect human health and the environment, and shall be certified to be clean by proper authorities before the area is transferred, sold or reused.

The Bay Trail

The Bay Trail is a network of multi-use pathways circling San Francisco and San Pablo Bays. It will encompass a 400-mile route through all nine Bay Area counties and 42 shoreline cities. The Trail offers walkers, runners, cyclists, nature lovers and hikers, young and old access to the Bay.

The Landfill 26 Flood Diversion Berm

In August 1998, a berm was built on the western edge of the buffer around Landfill 26. This berm was constructed to prevent floodwaters from the adjacent Pacheco Creek from ponding directly against the Landfill 26 cap. The berm changes the local and natural drainage pattern by preventing overflow from Pacheco Creek from flowing into the Landfill 26 drainage system and into the HAAF Airfield panhandle. With the addition of the berm, flows that would otherwise have separated from Pacheco Creek in a moderate to large flood (10 year event or larger) now flow in the direction of the creek channel and into Ignacio Reservoir.

A study prepared by the engineering firm of Philip Williams & Associates in November 1998 assesses the effects of the Landfill 26 berm on 10 year and 100-year flooding. The primary areas of concern for flooding are residential and commercial areas west of the Ignacio Reservoir (Pacheco Pond) near the mouths of Arroyo San Jose and Pacheco Creek. The re-direction of Pacheco Creek overflows from the Landfill 26 drainage system into Ignacio Reservoir has the potential to exacerbate existing flooding through two mechanisms. First, water surface elevations in lower Pacheco Creek near the Los Robles Mobile Home park increase in response to the increase in Pacheco Creek flow rates (the channel now carries the overflow that was previously diverted). Second, flood levels in Ignacio Reservoir increase in response to the increased volume of total inflow. Ignacio Reservoir flooding, in turn, affects Pacheco Creek and Arroyo San Jose water levels though backwater effects.

The results of the Philip Williams analysis show that the addition of the Landfill 26 berm redirected a maximum of approximately 15% of the Pacheco Creek 10 year peak flood flow (70 cubic feet per second (cfs) out of 470 cfs) and 25 % of the 100 year peak flood flow (195 cfs out of 770 cfs). Higher Pacheco Creek flow rates result in approximately a 0.1-foot increase in 100-year peak flood elevation at the Los Robles Mobile Home Park. Higher flow volumes into Ignacio Reservoir result in less than a 0.1 foot increase in peak flood elevations in Ignacio Reservoir and Arroyo San Jose (0.1 foot is the precision of the flood modeling).

According to hydrologic and hydraulic modeling conducted for this study, peak flood elevations in Ignacio Reservoir are 6.5 feet and 7.1 feet National Geodetic Vertical Datum (NGVD) for the 10 year and 100 year flood events, respectively. The addition of the Landfill 26 berm increases the duration of maximum flooding and elevates flood levels before and after the flood peak by up to 0.1 foot, for both the 10-year and 100-year events. The backwater effect from this increase causes water levels to be raised slightly in the downstream portions of Pacheco Creek and Arroyo San Jose. The backwater effect is limited to approximately the lower 1825 feet of Pacheco Creek and 2000 feet of Arroyo San Jose.

Increases in Ignacio Reservoir, Pacheco Creek and Arroyo San Jose water levels resulting from addition of the berm could be reduced to zero by breaching the berm during any flood larger than a 10-year event. This would allow Pacheco Creek overflows to enter the Landfill 26 drainage system. Flood modeling shows that a 40-foot wide breach at the northern end of the berm would effectively eliminate flood impacts associated with the berm. This approach would be an interim measure until regional flood management improvements are implemented as part of a proposed conversion of the HAAF airfield to tidal and seasonal wetlands.

Remedial Action Plan for the Phase II Sale Area

IT Corporation prepared an Interim Remedial Action Plan for the 800-B and Ammo Hill parcels, U.S. General Services Administration (GSA) Phase II Sale Area, at the Hamilton Army Air Field on behalf of the U.S. Army Corps of Engineers, Sacramento District, under the Total Environmental Restoration Contract. The Remedial Action Plan was prepared in accordance with the California Environmental Protection Agency's guidance as provided in the Departments of Toxic Substances Control Remedial Action Plan Policy (DTSC, 1995) and complies with the provisions of the California Health and Safety Code Section 25356.1.

The GSA Phase II Sale Area will be sold to the City of Novato. The 260-acre GSA Phase II Sale Area has been divided into four parcels: 800-A Parcel (22 acres), 800-B Parcel (16 acres), Women's Air Force Hill Parcel (60 acres), and Ammo Hill Parcel (170 acres). The Women's Air Force Hill Parcel was transferred. The 800-A Parcel was investigated in June through December of 1996, and the results of that investigation recommended no further action prior to transfer. The *Preliminary Assessment Report for Hamilton Army Airfield GSA Phase II Sale Area* (IT, 1996a) recommended that several locations within the 800-B Parcel and Ammo Hill Parcel be further investigated prior to transfer.

A site investigation of the 800-B and Ammo Hill Parcels was conducted in 1997, and the results of that investigation were summarized in the Site Investigation Report for 800-B and Ammo Hill Parcels, GSA Phase II Sale Area, Hamilton Army Airfield, Novato, California (IT, 1998a). The interim remedial action report has been prepared to address soil, sediment, and groundwater contamination identified at 12 locations within the GSA Phase II Sale Area 800-B and Ammo Hill Parcels.

Proposed Hamilton Meadows

The proposed Hamilton Meadows is a 235-unit residential subdivision proposed by Shea Homes to be located south of the Landfill 26 buffer. The Shea Homes proposal is presently under the consideration of the City of Novato for a Development Plan, Master Plan Amendment, and Tentative Map.

The Shea Homes Subdivision at Hamilton Field incorporates the Phase II areas designated by the Hamilton Field Master Plan for 250 new homes as well as the area designated for 19 single family lots below Chapel Hill. The proposal includes 208 lots north of North Hamilton Parkway and 27 lots on the property adjacent to Chapel Hill. The total proposed number of units, 235, is well below the overall density approved for these sites in the Master Plan which was 269 units. These homes will be situated in three distinct neighborhoods, two on the north side of North Hamilton Parkway, and one at the foot of Chapel Hill. The proposed lots range from 4,000 to 4,250 square feet and will offer single-family homes architecturally consistent with Hamilton Field at a range of prices to new buyers.

The Community Park development and Hamilton Meadows are likely to impact each other in regards to the following:

- Perimeter Fencing: The Hamilton Meadows project proposes a "good-neighbor" fence along the property line that divides the landfill buffer from Hamilton Meadows.
- Perimeter Landscaping: The Community Park project proposes a park road, off-street parking and tree
 planting in the landfill buffer as a buffer between Hamilton Meadows and park activity areas.
- Access between the park and Hamilton Meadows: The Hamilton Meadows project proposes two 50feet wide lighted parcels for pedestrian/bicycle/disabled access between the landfill buffer and Hamilton Meadows.

- Hamilton Meadows Off-site Grading: The City of Novato Parks, Recreation and Community Services
 Department should review and comment during the design review process on the off-site grading that
 faces the proposed Community Park. The grading should be developed and landscaped in a manner
 compatible with the proposed park development. The grading may have a direct impact on the Dog
 Park.
- Hamilton Meadows Off-site Storm Drainage: The City of Novato Parks and Recreation Department should coordinate the development of the Hamilton Meadows off-site storm drainage improvements that are draining across the proposed park with the improvements for the proposed Community Park Drive that may be developed in the near future by the Army.
- Park Sanitary Sewer Connection: Several reviewers of the park conceptual plan informally agreed that a sanitary sewer connection to Hamilton Meadows is a critical issue for the park development. CSW/Stuber Stroeh, the City of Novato Engineering staff, the Novato Sanitary District staff and several other people have informally suggested that the park will require a sanitary sewer service connection at the Hamilton Meadows subdivision. Perhaps the Sanitary Sewer Pump Station Manhole in Parcel 'A' and the force main can be designed to accommodate future park sanitary sewer drainage. The sanitary sewer demand for the park has not been determined, however it may be wise to determine if the 4" force main shown in the Hamilton Meadows Utility Plan can accommodate additional capacity or if the line will have to be larger to accommodate the park sanitary flows. Most of the proposed park sanitary flow will be from park restrooms/concessions and sinks at picnic areas. The proposed Water Park at Adventure Island may likely have a significant sanitary sewer demand. The City staff should work closely with the Hamilton Meadows engineers to coordinate sanitary sewer service for the future park.

Commissary Site

The Commissary site is a Navy-owned parcel between Christmas Tree Hill, State Access Road and the proposed North Hamilton Parkway. It is being considered for reuse by the City of Novato, the Marin College District and as a shelter for the homeless.

Ad Hoc Steering Committee Planning Process

The Ad Hoc Steering Committee Purpose

As the City of Novato was working towards acquiring land at Hamilton for the future Community Park, the City saw tremendous potential for the park. The City wanted to identify a diverse mix of potential uses. In order to assist the City with the planning of the park, the City Council choose and invited over 30 individuals to serve on an Ad Hoc Steering Committee for the purpose of identifying potential uses of the future park.

The Steering Committee Composition

The Committee was composed of representatives from a variety of special-interest groups who worked together with City staff and the consultant team at publicly noticed workshops. The following affiliations were invited to serve on the Ad Hoc Steering Committee:

- Novato Parks and Recreation Commission
- Novato Civic Arts Commission
- Novato Youth Commission
- Barker Pacific Group/Orion Partners, Ltd.
- Coastal Conservancy
- College of Marin
- DOGBONE
- Hamilton Child Care Center
- Homeward Bound of Marin
- Lanham Village Homeowners Association
- Marin Conservation League
- North Bay Children's Center

- Novato Bobby Sox
- Novato Chamber of Commerce
- Novato Community Players
- Novato Historical Guild
- Novato Lacrosse Club
- Novato Little League
- Novato Mother's Club
- Novato Music Association
- Novato Tennis Club
- Novato Unified School District
- Novato Youth Soccer
- Skate Park Task Force
- U. S. Coast Guard

Steering Committee Meetings:

Six meetings were publicly noticed and conducted as two-hour long interactive workshops. Each meeting had a special focus noted as follows:

- February 25, 1999 Committee Orientation; Overview of project constraints and brainstorm session of park potential, prioritization of brainstorm results and development of funding ideas
- 2. February 27, 1999 Site Visit and Project Overview for orientation of existing conditions and scale of project
- 3. Special Topic Meetings:

March 15, 1999: Seniors and Teens Park Use Ideas & Needs; development of project vision, use programming and Top Ten Ideas

March 29, 1999: Youth, Family and Special Populations; and development of three schemes April 19, 1999: Sports and Community Groups/Events; and review and evaluation of three schemes

June 14, 1999: Businesses, Non Profits, and Service Clubs; and review and evaluation of Conceptual Plan, estimated capital and operating costs

Project Related Informational Meetings:

- 1. City Cross-Department Internal Review and Property Owner Review May 17, 1999
- 2. Parks, Recreation and Community Services Department Review May 20, 1999
- 3. State Coastal Conservancy Review and Coordination Meeting May 20, 1999

Other Public Meetings:

- Joint Meeting of the City of Novato, Parks and Recreation and Civic Arts Commission

 June 17, 1999.
- 2. Novato City Council Review and Comment tentatively August 1999.

Goals and Objectives of the Steering Committee

The goal of the Committee was to identify a wide mix of possible uses, creating both passive and active recreation areas and facilities, and to identify entrepreneurial ways to develop and operate the park so that it will be a cost-recovering operation.

The work of the Committee focused on meeting the following objectives:

- Ideal: Park Design and Proposed Uses reflect a cost recovering operation.
- Provide a preferred plan and 2-3 Design/Use Options for consideration by various City Commissions and City Council.
- Have received Public Input on Steering Committee recommendations during the workshop process.
- Design includes amenities that accommodates large-scale events, including parking management.
- Incorporate ways to ensure adequate protection for adjacent wildlife refuges.

- All design recommendations include a transition and a boundary between the active use areas and the open space.
- Provide a Bay Trail spur connection that complements park uses.
- Consider feasibility of commercial operations to complement other park uses, i.e. golf driving range, volleyball/basketball café, etc.
- Consider parking and parking management for daily uses and large-scale events.

Project Description

Project Design Criteria

Hamilton Master Plan

- Bicycle and pedestrian links should connect North Hamilton Parkway to the park.
- The park improvements should meet the requirements of Section 9-20 of the Novato Municipal Code.
- The Community Park should have two distinct portions;
 - The southern portion is envisioned to be the cornerstone of the Hamilton community's active recreation facilities and may include competition baseball and soccer facilities.
 - The northern portion will be an opportunity to interpret the natural resources of Hamilton and serve as a buffer between sensitive natural resources and the active recreation uses.
- Pacheco Creek will be enhanced to provide a restored riparian and wildlife habitat. A 150-foot wide buffer zone will be provided on both sides of the creek to protect wildlife habitat from intrusion and provide for flood control, aesthetic quality and passive recreation. A recreational trail may be developed along one side of the creek.
- The following provisions will protect the natural resources adjacent to the Community Park:
 - The Ammo Hill area should be viewed as open space/wildlife refuge, with very limited human contact.
 - The Reservoir Hill area should be viewed as open space/wildlife habitat.
 - A 50-foot wide buffer of open space at the northwesterly side of Reservoir Hill.
 - A 300-foot wide buffer of open space around Ammo Hill.
 - A 300-foot wide wildlife corridor link between Ammo Hill and Reservoir Hill.
 - A transition zone with native plant materials between the active sports portion of the Community Park and the open space areas.
 - A management plan for the open space area.

Significance of the Memorandum of Agreement #2976 between City of Novato and the Army

- The use of the land that is conveyed to the City is limited to the following uses: school, classroom, or other educational purposes or as a public park or recreation area.
- The City must complete a metes and bounds description of the property acceptable to the Army.

Required NEPA Mitigation Measures

- The city shall demolish the unoccupied ammunition bunkers, other abandoned and unoccupied structures or implement safety proofing measures sufficient to ensure the health and safety of the public.
- Implement Bay Area Air Quality Control Measures for control of construction emissions of PM-10.
- Develop and implement a permanent access control plan to specifically prevent damage to natural resources from human trespass, vehicles, vandalism and dumping.
- Minimize the potential effects of any development on sensitive biological communities and resources on the Phase II Parcel. The city shall ensure creation of a permanent protective zone or zones that encompasses the wetlands and riparian forest, their watersheds, and sufficient uplands to support the continued hydrologic and biological functions of the wetlands. Activities that would adversely affect, directly or indirectly, sensitive biological communities and resources shall be prohibited within the protective zone or zones.
- The city shall develop and implement a permanent natural resource management and monitoring program for natural resource areas to be retained within the Phase II Parcel. The program shall include annual monitoring, identification of responsible parties and sufficient funding to ensure that the program is perpetual. The program shall be coordinated with other appropriate resource agencies and other project activities in natural areas, such as habitat restoration and enhancement, and fuels management.

Landfill 26 Restrictions and Design Criteria for Modifications to Landfill 26 from the Army Corps of Engineers

- The Army may request to decommission the water treatment plant at some point in the future. This may occur as soon as five or ten years from 1999 and would make the treatment plant available for other uses. (Construction Drawings for the treatment plant are shown on the Plans for Landfill 26, Phase I dated July 1992.) The treatment plant was never put into service, as designed, to treat landfill effluent, since it was not needed. The 1996 action by the Regional Water Board (RWQCB) revised the Waste Discharge Requirement (WDR) and allowed the treatment plant to not be operated. In 1999 the Army may seek permission to "mothball" the treatment plant to better preserve the equipment within the not-operating plant. The formal decommissioning of the treatment plant, the physical removal of all equipment—including the building itself may occur within five or ten years. It is possible that if the Army is permitted to mothball the plant in 1999, a good part of the building could be made available to the City, maybe on a lease basis, for office/grounds maintenance use.
- The bunkers must be investigated for their suitability for reuse. (No drawings for these structures are available.)
- The soil cap is expected to settle between 5 and 30 inches. The Army is responsible to correct future settlement. The most settlement may occur in the center of the landfill. (Figures 3-5 and 3-6 of the Remedial Action Plan prepared in July 1993 show patterns of expected minimum and maximum settlement.)
- Subsequent use should not create conditions where water could stand on the cap.
- The finish and subsurface grades of the landfill shall remain undisturbed. No alterations of the existing earthwork and drainage patterns may occur within the landfill.
- The permanent markers, probes, survey monuments, risers, and wells must be protected.
- There is an existing v-ditch and drainage pattern around the perimeter of the landfill and buffer, which must remain.
- An approximately 200-foot wide buffer that is a minimum of 175-foot wide must surround the landfill.
 The 175-foot wide buffer should be measured from the centerline of the existing v-ditch that surrounds
 the landfill. This minimum width may decrease to a 150-foot buffer along where the Hamilton
 Meadows is planned south of Landfill 26 pending resolution among the developer, the Army and the
 City.
- The landfill must have a loop road around the complete perimeter for maintenance access. The road may also serve other uses.
- There is an 8-10-foot high flood control berm on the west edge of the buffer, which must remain. The
 top of the berm may be used as a trail or bike path. The berm was not designed to support large
 vehicles.
- There are three contaminated sites within the buffer that should not be excavated or otherwise be disturbed. No trees may be placed in the contaminated areas.
- The subdivision south of the landfill shall not be located within the buffer.
- There may be a need for a future pump station north of the landfill and buffer.
- There shall be no proposed jurisdictional wetlands within the landfill or buffer.
- The side slopes of the buffer that are part of the cap or that contain contaminants may be filled upon but not cut into. The existing drainage pattern is to be preserved with no additional surface water routed to the LF 26 drainage system.
- No parking areas, roads, buildings, shrubs or trees may be placed on the landfill. Parking areas, roads, buildings and trees may be placed on the buffer in the areas that do not contain contaminants. With proper precautions, it would be acceptable to place roads and buildings on contaminated areas. In fact, this will be necessary at the Quartermaster's Storage Yard area on the southeast-side of the landfill
- Avoid placing utilities on the landfill. Irrigation and electrical utilities on the landfill are acceptable if no deeper that 12 inches.
- Foundations on the landfill may not exceed 12 inches below finish grade.
- The landfill membrane must not be damaged.
- Improvements on the landfill should be predominately recreation turf with allowances for adequate buffers between play areas and the wells, which protrude through the surfaces of the landfill.
- The soil bearing capacity of the landfill and the buffer areas are unknown and should be investigated.

- A boundary survey for the landfill should be provided.
- West of the landfill area, is an area that floods, including the easternmost bunkers.

Draft Remedial Action Plan Significance

The Ammo Hill Parcel I (GSA PH II Sale Parcel) is approximately 260 acres and includes Ammo Hill, the bunkers, Pacheco Creek, and Reservoir Hill. It excludes Landfill 26. The Army is responsible for implementing the remediation before conveyance of the land.

The Draft Remedial Action Plan, dated June 1998, recommends several actions to treat the soil adjacent to Landfill 26, including the following:

- Encapsulation of the Quartermaster's Salvage Yard area.
- Encapsulation of the former underground storage tank and storm drains at former Building 783 that is east of the bunkers.
- Excavation of the storm drain lines north of the existing bunkers.
- Excavation of the suspected skeet range surface soils south of the landfill buffer. The November Final Draft Remedial Action Plan requires no cleanup of suspected skeet range surface soils in the area south of the bunkers and north of Pacheco Creek.
- Sediment removal in the Pacheco Creek channel.
- Excavation of storm drains, service pit and aboveground storage tank at former Building 799.
- The June 1998 Draft Remedial Action Plan does not address the former underground storage tank at the former Building 750. (Brad Call of the Army Corps of Engineers informed us that the November 1998, Final Draft does address this.)
- On page 4-5 the Draft Remedial Action Plan considered that the open space and public areas will be unlikely places for large-scale agriculture and private gardens and therefore not a likely pathway for potential exposure of humans to contaminants by ingestion of food. Based on this, we suggest that the City exclude community gardens as a program element of the park. Because of risks of contaminants in the soil, if a dog park is considered, it should be carefully located away from areas of concern.

Flood Significance

According to the Environmental Assessment of the Phase II Sale Parcel, the entire floodplain below elevation of 7 mean sea level is subject to 100-year flooding (EIP Associates, 1992).

West of the landfill area, there is an area that is subject to inundation during a 100-year flood event, including the easternmost bunkers. This flooding will also be likely after the Hamilton Wetlands are restored east of the landfill. The westernmost bunkers, above elevation 12.00, may not flood. These flood patterns should remain undisturbed. A representative from CH2Mhill suggested that two feet below the top of the diversion berm would be the approximate limit of a 100-year flood event. (Refer to Figure 7, Assessment of the Impacts of the Landfill 26 Berm on the Local Regional Flood Elevations by Philip Williams & Associates, November 1998. And also Section 5 of HAAF Landfill 26 Perimeter Grading and Drainage Modifications Alternative Analysis by CH2Mhill, April 1998.)

Easements

The are two utility easements on the Community Park property which could potentially affect the development of the park.

There is an existing easement for the Novato Sanitary District that runs approximately parallel to the east side of Pacheco Creek. This easement contains an underground sanity sewer force main that flows to the north.

To the west of Pacheco Creek and partially parallel to the railroad right-of-way is an 80-foot wide electrical transmission line easement. The easement contains towers and high-voltage electrical transmission lines.

Any improvements within these utility easements are subject to the review by the utility providers and will likely be considered as encroachments and subject to potential disturbance by the utility providers in the event they need to repair, improve and maintain their utilities within the easement.

Regulatory Approvals and Comments

The Community Park improvements will likely require CEQA review, regulatory review and approval by the following regulatory bodies:

- Novato City Council
- U. S. Army Corps of Engineers for wetland protection
- U. S. Army for Landfill 26 restrictions
- U. S. Environmental Protection Agency
- U. S. Fish and Wildlife Service
- Bay Area Air Quality Management District
- California Department of Fish & Game
- California Environmental Protection Agency
- California Regional Water Quality Control Board
- State Clearing House for CEQA review and notifications
- State Department of Health, Toxic Substances Control Division
- State of California Office and Planning and Research

main Co. Ehren Health

The following agencies and organizations would likely review and comment on the proposed park improvements:

- Association of Bay Area Governments
- Barker Pacific Group/Orion Partners, Ltd.
- Bay Conservation and Development Commission
- Bay Trail
- Bel Marin Keys Community Facilities District
- California Department of Transportation
- California Coastal Conservancy
- College of Marin
- County of Marin
- County of Marin Local Agency Formation Commission
- DOGBONE
- Golden Gate Bridge Highway & Transportation District
- Hamilton Child Care Center
- Hamilton homeowners associations
- Homeward Bound of Marin
- Lanham Village Homeowners Association
- Marin Chapter of the Audubon Society
- Marin Conservation League
- North Bay Children's Center
- Novato Bobby Sox
- Novato Chamber of Commerce
- Novato Civic Arts Commission
- Novato Community Players
- Novato City Departments
- Novato Fire protection District
- Novato Historical Guild
- Novato Lacrosse Club
- Novato Little League
- Novato Mother's Club
- Novato Music Association
- Novato Parks and Recreation Commission

- Novato Sanitary District
- Novato Tennis Club
- Novato Unified School District
- Novato Youth Commission
- Novato Youth Soccer
- Pacific Gas and Electric Company
- Shea Homes
- Skate Park Task Force
- U. S. Coast Guard

Top Ten Park Use Ideas from the Ad Hoc Steering Committee

- 1. Gathering Place
 - Sitting and Watching Others
 - Socializing
 - Sunset/Sunrise Viewing
 - Pond as Centerpiece/Toy Boats
 - Food and Drink Concession
- 2. Multi-Use Fields
 - Soccer/Lacrosse/Cricket/Bobbie Sox/Baseball/Softball/Volleyball/Special Events
- 3. Court Facilities
 - Tennis/Basketball/Roller Hockey
 - Volleyball Cafe
- 4. Play Areas
 - Tot Lot
 - Playground
 - Kiddie Track/Gas Station
- 5. Water Play Features
 - Play Fountain
 - "Mushrooms"
- 6. Adventure Activities
 - Rock Climbing
 - Ropes
 - Team Building Area
- 7. Batting Cages/Golf Academy
 - Revenue Generators
- 8. Passive Uses
 - Horseshoes/Shuffleboard
- 9. Walk/Hike/Bike/Skate Paths
 - Outdoor Fitness
 - View Wildlife
 - Connect to Bay Trail
- 10. Natural Areas
 - Wildflowers
 - Ecology Walk

Description of the Conceptual Plan

"Island" Theme

The park is divided into four "islands" in response to the natural site boundaries and to provide a comfortable organization and identity for the activity areas. The Landfill 26 is identified as "The Great Meadow" because it is dominated by a grass landscape that can serve multiple purposes. "Adventure Island" is a waterfront destination for exciting social activities requiring user fees. "Sports Court Island" is a destination adjacent to the Pacheco Creek buffer and near the park entrance for intense sport court games such as basketball, skating and volleyball that may be a healthy setting for young people to socially interact. "Community Park Drive" is a dramatic long and narrow space adjacent to the Pacheco Creek buffer that serves as the park entry drive and provides the sense of a park-like landscape.

Access Control Plan

All design recommendations include a transition and a boundary between the active use areas and the open space. There is a 300-foot wide wildlife buffer around Ammo Hill. A continuous fence surrounds Ammo Hill. The single park entrance for vehicles is securable with a gate. Pedestrian entrances into the park are securable with bollards to prevent unauthorized vehicular access. At the Great Meadow, the Landfill buffer overlaps the wildlife buffer and the buffers are used primarily for drainage and open space. At the Adventure Island, the wildlife buffer has proposed seasonal wetlands and is used primarily for drainage. open space and wildlife habitat. Between the Ammo Hill wildlife buffer and Adventure Island is a fiveacre pond that limits access to Ammo Hill and provides a physical separation between the active and passive uses. The activities on the west end of Adventure Island, which are closest to Pacheco Creek and the existing riparian forest, are passive picnic areas. There is a 150-foot-wide creek setback on both sides of Pacheco Creek that is designated as open space and a place for flooding, creek restoration, seasonal wetland enhancements and nature interpretation. A "good-neighbor fence" is proposed by Shea Hones at the edge of the Hamilton Meadows Subdivision to control access between the park and Hamilton Meadows. Shea Hones is also proposing two corridors for pedestrian and bicycle access between the park and Hamilton Meadows. The existing Water Treatment Plant is locked and fenced. Roads and parking areas within the park and bridges that cross Pacheco Creek will be edged by barriers to prevent vehicles from off-road driving. Vehicles will be prohibited from access to the Landfill. Multi-use Trails within the wildlife buffers are minimal.

Vehicular Access and Parking

The Community Park is accessed by vehicle via the proposed North Hamilton Parkway, via Nave Drive, via U.S. Highway 101 by using the Hamilton Field or Bel Marin Keys exits. An internal park road system allows for vehicular access to off-street parking areas. Approximately 700 off-street parking spaces are provided. Each island has an appropriate amount of parking and drop-off areas conveniently located adjacent to activity areas.

Special Event Parking Management

The Community Park can accommodate special events in three areas: The south edge of the Great Meadow in the landfill buffer, west of the Great Meadow in the landfill buffer and in the Adventure Island area. Parking for special events will require special permits. Depending on the size of the event and coordination with property owners, the following options for parking management can be considered:

- Park onsite in the 700 off-street spaces
- Park at the Hangar parking lots and provide a shuttle service
- Park in the Bel Marin Keys Industrial Park and provide a shuttle service and allow access via the Pacheco Creek pedestrian bridge
- Park at Commissary triangle
- Park at the Marriott commercial center
- Park at the Vintage Oaks Shopping Center and provide a shuttle service
- Park at Park & Ride lots along the U.S. Highway 101 corridor and provide a shuttle service

Pedestrian/ Service/ Bicycle/Disabled Access and Circulation

Systems of 10 feet wide paved multi-use paths provide for a comfortable circulation system for walkers, joggers, cyclists, and people with disabilities, skaters, and park maintenance. As park use expands the multi-use paths can be widened to accommodate additional capacity.

Utility Infrastructure Plan

All utilities should be located underground and be consistent with the Hamilton Design Guidelines. The alignment of the utilities should essentially follow the park road system that serves each island. Additional water and electrical utilities should be provided in underground vaults for the special event areas. The current project titled Hamilton Field Phase 2; Stage Two is providing the North Hamilton Parkway. There is a water main and joint trench (gas, telephone, cable TV and electric) stubbed at this location. There is no sanitary stub.

Sanitary Sewer:

There is a gravity line that runs parallel with North Hamilton Parkway, along the west side of the railroad now. It is at or near capacity. Further research will be needed to see if the Community Park could use this system.

The Hamilton Meadows subdivision is going to use a pump station for its sanitary sewer system. The Community Park may be able to utilize this station.

If the above scenarios do not work, the Community Park will need a pump station.

Water:

The water stub provided is a 16" main and should be adequate for the Community Park.

Joint Trench:

There is a primary stub being provided. This stub should be adequate for the Community Park.

Storm Drain:

The storm drain system would most likely utilize Pacheco Creek for outfall.

Utility Design Criteria

Sanitary:

- 6" mainline (minimum)
- 4" lateral (minimum)
- 0.6% minimum slope on mainline
- 1.25% minimum slope on lateral
- Manhole every 350'
- Unisex or separate-sex restrooms to serve each activity area located within convenient walking distances from park activity areas.

Joint Trench:

Based on design. Needs to be provided to users requiring power.

Water:

- 8" mainlines, less for laterals, depending on design
- Hydrants: 500' maximum spacing

Storm Drain;

- 15" line minimum within right-of-way
- 8" branch (depends of design)

Park Lighting

The park facilities most likely to be used at night should be lighted. Lighting should be carefully specified and arranged to provide minimal light intrusion on adjacent residential and wildlife areas. Lighted areas should be provided as follows:

- Roadway and parking lot lighting for safe use by park users during the evening hours to meet criteria
 provided by the City of Novato Police Department.
- Sports lighting on the Great Meadow to the extent that is feasible due to the limitation of the 12" foundation depth on the landfill.
- Sports lighting for the tennis courts.
- Sports lighting of the sports courts
- Activity lighting for Adventure Island.

The Great Meadow

Landfill 26 and Buffer Improvements: Provide approximately 20 acres of irrigated multipurpose turf fields for active recreation including tournament play. The presence of the existing landfill surface structures greatly limits the layout of play fields and requires the provisions adequate clearance of padded surfaces on the surface structures for player safety. The buffer improvements provide a forested canopy as a contrast to the open space provided by the meadow. Views to the northeast of the Hamilton Wetlands and agricultural areas are unimpeded.

Park Circle: Provides an arrival area for park guests and a decision-point for choosing an island destination. It includes a roundabout similar to other traffic intersections at Hamilton, palm trees and a park entry gate in a style and materials similar to the Hamilton Main Gate.

Wildlife Buffer: A 300-foot-wide wildlife buffer is shown around Ammo Hill as required by the Hamilton Master Plan. Activity near the buffer is mostly limited to passive activities.

Ammo Hill Perimeter: The existing fence is to be maintained where standing. Part of the fence is to be repaired and part relocated to allow limited access around the Landfill.

Residential Buffer: The Community Park project proposes a park road, off-street parking and tree planting in the landfill buffer as a buffer between Hamilton Meadows and park activity areas.

Multi-use Ball Fields: The irrigated lawn area provides for three soccer fields and additional soccer field overlapping three ball diamonds. Special footings will be required for the backstops and sideline fencing due to the 12" maximum depth allowed for foundations.

Putting Greens and Golf Center: Are provided as a positive revenue stream to the park. The alignment may change depending on future study and suggestions of golf academy operators. The addition of a driving range and food services would provide a significant revenue source.

Art Meadow: Provided as a passive area adjacent to the sensitive wildlife resources and as an opportunity to include cultural arts in the project.

Grass Volleyball: Provided as an informal irrigated turf area that can be used for organized and informal lawn games, picnics and special events. The area is adjacent to a picnic plaza and a pavilion with restrooms and a concession.

Sculpture Garden: Provided as a passive area adjacent to Hamilton Meadows residential subdivision and as an opportunity to include cultural arts in the project.

Batting Cages: Provided as a positive revenue stream to the park, provide a center for informal family activity and support the adjacent ball diamonds. The enclosed cages provide a barrier between the active recreation area and the adjacent wildlife buffer and are adjacent to tot lot, a picnic plaza and a pavilion with a restroom and concession facility.

Bioswales: are provided for inexpensive perimeter drainage around the Landfill and as a barrier between active recreation areas and the wildlife buffer.

Dog Park: Provide within an approximate one-acre fenced area adjacent to the Hamilton Meadows residential subdivision and the Water Treatment Plant.

Corporation Yard: The existing and relatively new 4,000 square-foot Water Treatment Plant and yard may become available for use as a corporation yard. It includes a restroom and has a warehouse-like high bay floor plan. It will require new utility services when the Hamilton Meadows project truncates the existing overhead and underground utilities that currently serve the treatment plant.

Encapsulated Waste at Quartermaster's Storage Yard: an asphalt parking area covers the encapsulated waste, southeast of the landfill, identified in the Draft Remedial Action Plan. It should not have tree planting within the area of encapsulated waste.

Bay Trail Trailhead: Provided at the eastern terminus of Community Park Drive for Bay Trail access.

Hamilton Wetlands: Will require access via the Community Park Drive. The Army has indicated that it will build the first phase of Community Park Drive to serve as access to the Hamilton Wetlands. This is an approximately 14-acre area of City-owned property between the Great Meadow and the proposed Hamilton Wetlands. This area should remain undeveloped because it is part of the wildlife corridor that connects Ammo Hill to Reservoir Hill. It should be considered as a site for wetland mitigation if the project requires wetland mitigation or it is desirable to use the land as a wetland mitigation land bank for other projects.

Sunrise Terrace: Provides a passive area at the northern termini of the multi-use trails. It provides an eastern view and a view across the proposed Hamilton Wetlands.

Special Events: Can be accommodated in two places. In the volleyball meadow and adjacent parking area south of the Landfill and in the buffer west of the Landfill. Additional water and electrical utilities should be provided in underground vaults for these special event areas.

Adventure Island

The Adventure Island provides an opportunity to create fee-based park activity areas that can provide a revenue stream to the project. Adventure Island is envisioned as a family destination for a broad range of age groups from toddlers to adults. The Adventure Island will provide a high level of well-maintained guest services and generate revenue based on admission fees, rentals, supervised activities and food sales.

Hamilton Pond: Provides a five-acre pond to provide access to naturalistic water as a passive recreation resource. It provides a park-like aesthetic setting and opportunities for limited boating, fishing and wildlife viewing. Human contact with the pond will be prohibited except for incidental contact according to State of California and Marin County health regulations.

Wedding Pavilion/Band Stand: Provided as a traditional park-like focal point on a waterfront setting. Will provide a revenue stream to the project and is a setting for weddings, parties, performances and special events.

Amphitheater Hill: Provided on the east side of the pond as a setting for performances, child play and outdoor education.

Water Play Area: Includes a Park Pavilion/Café for conveniences, services and refreshments. The fountain/plaza is for child play and multiple uses (such as outdoor dining, special events or a place to sit) when the fountain is turned off and the plaza is available. This element provides for safe human contact with water as a response to the hot Novato summer climate.

Tot Lot: Provides for child play as a centerpiece of family activity.

Proposed Hamilton Community Park

Adventure Play Area: Provides a place for child and adult adventure play including a kiddie track and possibly a ropes course.

Group Picnic Area: Provides picnic facilities for organized groups up to 300 people. Includes a small stage and space for outdoor food preparation and dining.

Sunset Hill Picnic Area: Provides a quiet place on a hill adjacent to the existing riparian forest for passive family picnics, viewing sunsets and playing in the archaeological dig play area.

Picnic Restroom: pavilion with comfort and concession facilities is provided between the two picnic areas.

The Black Forest: The undisturbed thick riparian forest serves as a naturalistic backdrop for the western edge of Adventure Island.

Tennis Center: Four lighted tennis courts are provided in two banks for games, tournaments and lessons. A tennis pavilion with comfort and concession facilities is provided.

Bioswales: Are provided for inexpensive storm drainage around the tennis courts and parking area.

Seasonal Wetlands: are shown as opportunities to mitigate wetlands impacted by park development and provide opportunities for wildlife enhancements. Areas adjacent to the Pacheco Creek may be either seasonal wetlands or restored riparian forest.

Special Events: Can be staged in the Adventure Island area as a complement to the two areas for special events at the Great Meadow.

Sports Court Island

The Sports Court Island provides an opportunity to create youth-based park activity areas that can provide a healthy environment for youth and young adults to play and socialize.

Basketball Courts: Four full-size lighted outdoor basketball courts for socializing, games, tournaments and lessons.

Roller Hockey Court: One fence, outdoor lighted concrete National Hockey League dimensioned court with dasherboards and spectator areas.

Sand Volleyball Courts: Two lighted outdoor sand regulation courts for socializing, games, tournaments and lessons.

Skate Park: One fenced lighted outdoor concrete court for socializing, games, tournaments and lessons.

Picnic Area: Are informally arranged along the Pacheco Creek buffer.

Pacheco Creek Restoration: is shown as an opportunity to mitigate wetlands impacted by park development and provide opportunities for wildlife enhancements. Areas adjacent to the Pacheco Creek may be either seasonal wetlands or restored riparian forest.

Sports Pavilion & Restroom pavilion with comfort and concession facilities is provided.

Park Buildings

Several Park Buildings were designed as part of the Conceptual Plan. They are developed in a style compatible with the traditional-looking building throughout Hamilton. The buildings serve a variety of functions including gateways, focal points, comfort, refreshment and concession sales and shelter. Some of the typical buildings and structures are listed below:

Park Entry Gate
Adventure Island Entry Gate
Wedding Pavilion/Band Stand
Park Pavilion/Café
Typical Restroom/Concession
Picnic Pavilion
Golf Center
Shade Structure at Tot Lot
Dog Park Shade Trellis
Typical Shade Trellis
Ballpark Pavilion
Sports Court Pavilion
Tennis Pavilion
Volleyball Pavilion

Description of Alternatives

Scheme 1 Water Theme

Alternative 1 is similar to the Conceptual Plan. It maximizes water as a park setting. It has a large pond that defines the Adventure Island. It includes the Great Meadow and Sports Court Island themes that are in the Conceptual Plan. The significant difference between it and the Conceptual Plan is that the Adventure Island and pond in the Conceptual Plan are smaller and create less impacts on natural resources than Alternative 1.

Scheme 2 Sports Theme

Alternative 2 maximizes sporting activities as the focus of the park. The ball diamonds are placed adjacent to a pond in the area of the existing bunkers in a cloverleaf pattern to facilitate tournaments. The Landfill is a multipurpose meadow that accommodates seven soccer fields as well as volleyball, putting greens and passive activities. The landfill buffer west of the landfill is used for sports courts. An eight-court tennis center is placed in the triangular parcel west and south of Pacheco Creek.

Scheme 3 Nature Theme

Alternative 3, the Nature Scheme, provides the least expensive and least environmental impacts of the schemes. It is a response to allowing the existing systems in place to succeed with the least amount of human interaction. The landfill is a meadow of naturalized or irrigated grasses for multiple purposes like lawn games and informal picnics. The bunkers are removed and the seasonal wetlands and hydrological patterns on the site area enhanced to support a pond, seasonal wetlands and a riparian forest adjacent to Pacheco Creek. A Nature Center and Art Park are placed in the triangular parcel west and south of Pacheco Creek.

Items Considered and Not Incorporated

The Committee considered several other uses and decided not to pursue their incorporation into the schemes including the following:

- Golf driving range and supporting food services
- More extensive golf academy

- Internet farm or video arcade
- Indoor facilities
- Proximity to U.S. 101 may support operation of regional recreational facilities
- Disc golf

Capital Cost Estimates for the Proposed Future Hamilton Community Park

All costs shown are in 1999 dollars with allowance for escalation as noted below. Estimates of capital costs are based on the construction costs of similar park facilities prior to 1999. The estimates for environmental review are based on consulting costs of similar studies prior to 1999. Protracted opposition to the Community Park which could require additional studies, legal defense or project delays may add undeterminable costs to the project and are therefore not included in the estimates.

PRELIMINARY ESTIMATE OF CAPITAL COSTS

Item	Iten Subtota
A. Community Park Drive (3 Acres)	\$338,575
B. The Great Meadow (Landfill 26 And Buffer) (49 Acres)	\$5,021,850
C. Adventure Island (25 Acres)	\$5,530,350
D. Sports Court Island (4 Acres)	\$1,285,650
Subtotal A-D Layout, Mobilization & Bonds (5%) Design & Engineering (10%) City Project Development & Administration (15%) Design Contingency (10%) Environmental Review (CEQA/NEPA Studies)	\$12,176,425 \$608,821 \$1,217,643 \$1,826,464 \$1,217,643 \$800,000
TOTAL A-D plus "Soft Costs"	\$17,848,995
Cost Escalation (7 years at 5% per year)	\$4,261,749
TOTAL	\$22,108,744

Estimates of Operations Revenue and Expenses (as compiled by The Sports Management Group)

The following is summary of the estimates of operations revenue and expenses as complied by The Sport Management Group. Refer to the Hamilton Community Park Expense and Revenue Analysis for an explanation of their detailed analysis.

PRELIMINARY ESTIMATE O POTENTIAL	F COST RECOVER	XY	
	Low	Average	High
Probable Annual Expense	\$1,717,000	\$1,814,000	\$1,911,000
Potential Annual Revenues	\$1,364,000	\$1,526,000	\$1,688,000
	Worst	Average	Best
Cost Recovery Potential	71%	84%	98%
Annual Subsidy	(\$547,000)	(\$288,000)	(\$29,000)

REVENUE SUMMARY		
Description	Low	High
Adventure Island	\$977,000	\$1,191,000
Sport Court Island	\$89,000	\$115,000
The Great Meadow	\$194,000	\$246,000
Hamilton Pond	\$111,000	\$136,000
Total Potential Revenue		
(rounded)	\$1,364,000	\$1,688,000

EXPENSE SUMMARY		
Description	Low	High
Salaries & Benefits	\$616,000	\$664,000
Commodities	\$6,000	\$9,000
Marketing	\$20,000	\$25,000
Supplies	\$31,000	\$40,000
Landscaping, Maintenance,	·	
Repair & Utilities	\$1,044,000	\$1,173,000
Total Potential Revenue		
(rounded)	\$1,717,000	\$1,911,000

POTENTIAL PARTICIPATION SUMMARY		
Description	Low	High
Adventure Island	91,000	112,000
Sport Court Island	21,000	27,000
The Great Meadow	44,000	56,000
Hamilton Pond	13,000	16,000
Total Potential Participation		
Figures	169,000	211,000

Recommendations Based on Analysis of Operations Expense and Revenues:

- The addition of a golf driving range or a three-hole par 3-4 and 5 golf course would add significant revenue from fees and the sale of food, beverage and merchandise. The likelihood of finding a contractor for the operation of the Golf Center is increased with a driving range.
- Consider a design that would allow fee-based special events, such as children's theater, puppetry,
 music and other performance-based activities to be held on the Floating Stage. Relocating the entrance
 of Floating Stage to face Adventure Island would allow controlled access into the area.
- Dog grooming services and pet supplies would add revenues.
- The addition of the following features add significant revenues from fees and the sale of food, beverage and merchandise:
 - Two outdoor climbing walls (24' and 16')
 - Ropes course
 - Carousel
 - Train or car ride
 - Birthday party area

Conceptual Plan Implementation

City Council Review & Comments

The Novato City Council should review and file the project with no action except to advise the City Staff on next steps.

Demolition of Existing Bunkers

The City of Novato is required to demolish or safety-proof the abandoned ammunition bunkers within the GSA Phase II Parcel. The Army may be willing to assist with the removal of the bunkers. The committee did not favor reuse of the bunkers. The City should investigate the safety and feasibility of the bunker material, such as the concrete rubble, being recycled for road base or used for levee or pond revetment.

Future Studies

Feasibility Study

CEQA Review

Traffic Study

Hydrology Study and Wetland Delineation

Noise Study

Biological Study

Resource Management Program

Coordination with Adjacent Projects

Continue efforts to coordinate with adjacent projects such as other Hamilton recreation facilities, the park road, the Hamilton Meadows, the Landfill closure, the Hamilton Wetlands, the Bay Trail, Commissary Triangle, North Hamilton Parkway and other Hamilton projects.

Project Funding

There is no funding budgeted for the project. A broad-minded approach to project funding will be necessary to implement the park improvements. Some suggestions for funding provided by the Ad Hoc Steering Committee are listed below:

- 1. Corporate Sponsorship of Specific Facilities, i.e. Sport court, fields, adventure island
- 2. User fees for certain park areas, i.e. Batting cages, water play areas, golf center
- 3. Parking meters/parking lot fee
- Adopt an area program
- 5. Sell advertising space on fencing, park benches, trash cans, signage
- 6. Redevelopment
- 7. Hamilton Phase II park development fees and recreation/environment donation
- 8. Minimize City subsidized use of fields, courts, i.e. contracts, group user fees, rentals
- 9. Create a Friends of Hamilton non profit organization (501c3)
- 10. Park impact fees from City residential development (approximately \$125,000/year city-wide)
- 11. Use contract concessionaire to operate food pavilions, run proshop and equipment rental concession.
- 12. Apply for grants, i.e. Coastal Conservancy Grant for Bay Trail connection study

- 13. Bonds
- 14. Solicit for request for proposals from potential park operators/developers
- 15. Pursue partnerships with private and non-profit organizations.

Project Phasing

Challenges to Phasing

As Hamilton reaches buildout, people will expect community recreation facilities at the Community Park. The lack of park funding to implement and maintain facilities is the most formidable challenge to project phasing. Phasing of improvements may be more expensive than implementing a total project because of the need for incremental and interim improvements and the need to stub underground utilities for future improvements.

The City of Novato is required to implement the mitigation measures for the Phase II Parcel. These National Environmental Policy Act mitigation measures are related to the safety of the existing bunkers, air quality during construction, access control, protection of sensitive biological comminutes and the development and implementation of a natural resource management plan. These mitigation measures would most likely take precedence over implementation of other park facilities

Phasing Approach and Options

Coordinate with the projects that develop adjacent to the Community Park and encourage those projects to assist with improvements on the park property. The construction of the Community Park Drive by the Army is a good example of the benefits of such coordination.

The design of the park is segregated into four distinct islands that can be implemented independently of each other as long as basic improvements such as roads, utilities and required mitigation measures are in place.

Implementation of the Community Park Drive to Park Circle and some necessary underground utilities are an obvious first phase. Bay Trail improvements, the Dog Park, and some simple multi-use paths would provide logical access to the park and make it available as an open space resource and expose people to the beauty and the potential of the parkland.

Vehicular access to the Great Meadow and the Adventure Island branch from Park Circle. The Great Meadow can slowly be improved for multiple uses. The Adventure Island improvements can be delayed until a concession operator is found for building and operating Adventure Island. After the bunkers are removed, the area of could be redeveloped as an interim golf driving range that would provide a revenue stream to the City.

The Sports Court Island can be implemented separately from the Great Meadow and the Adventure Island. The Pacheco Creek restoration, nature trail and seasonal wetland improvements can be implemented separately from the other park improvements.

The tennis courts and supporting road and parking could be implemented separately from Adventure Island

Access Control Plan

The City of Novato is required to develop and implement an access control plan to protect the natural resources within the GSA Phase II Parcel from damage. The Conceptual Plan shows a fence around Ammo Hill. A schematic diagram showing access control is shown in the Supplemental Exhibits of this report. A fence may also be required around Reservoir Hill.

Natural Resource Management and Monitoring Program

The City of Novato is required to develop and implement a Natural Resource Management and Monitoring Program for the natural resources within the GSA Phase II Parcel. The program shall describe the desired conditions, annual monitoring methods and criteria for deviations and be carried out in perpetuity. The program should be coordinated with other restoration enhancements and fuels management efforts and be coordinated with federal, state, county and other resource agencies.

Refer to Supplemental Exhibits for the following:

List of Figures

Phase II GSA Sale Parcel Vicinity Map

Project Study Area

North Hamilton Parcel

Phase II GSA Sale Parcel

New Hamilton Partnership Master Plan (Phase II)

Land Uses on the Phase II GSA Sale Parcel and Adjacent Lands

Land Use and Zoning Designations

Draft Architectural Rendering of BRAC Property Around L26

Wetlands Previously Identified in the Phase II GSA Sale Parcel

Satellite Photo January 1989

NHP Master Plan (2/99)

MTBE Plume

Constraints Map

Conceptual Plan (color)

Conceptual Plan (black & white)

Alternative 1 Water Theme

Alternative 2 Sports Theme

Alternative 3 Nature Theme

Access Control Plan

Special Events Plan

Parking Plan

Schematic Utility Infrastructure Plan

Lighting Plan

Park Buildings

Park Entry Gate

Adventure Island Entry Gate

Wedding Pavilion/Band Stand

Park Pavilion/Café

Typical Restroom/Concession

Picnic Pavilion

Golf Center

Shade Structure at Tot Lot

Appendices

Bibliography

Capital Cost Estimates

Estimates of Operations Revenue and Expenditures (See TSMG Report)

Steering Committee Input

File Name: BSA2-98/Report/Reports

Index

Ad Hoc Steering Committee Planning Process 7, 19 Adventure Island 7, 8, 9, 10, 11, 12, 19, 27, 29, 30, 31, 32, 33, 34, 53, 73, 93 Adventure Island Entry Gate	Access Control Plan	LandSil 26 and Duffer Immunion
Adventure Island 7, 8, 9, 10, 11, 12, 19, 27, 29, 30, 31, 32, 33, 43, 53, 73, 93 Adventure Island Entry Gate 32, 39 Adventure Island Entry Gate 32, 39 Adventure Play Area. 31 Adventure Play Area. 32 Appendices. 39 Adventure Play Area. 31 Adventure Play Area. 32 Appendices. 39 Ark Entry Gate Restoration 30 Appendices. 30, 31 Aperablity Study Area. 31 Adventure Play Area. 31 Adventure Play Area. 31 Adventure Play Area. 31 Adventure Play Area. 32 Appendices. 39 Ark Entry Gate Restoration 30 Appendices. 30, 31 Agventure Play Area. 31 Agrea Play Bluiting Flore Play Bluiting Area. 31 Agrea Play Bluiting Flore Play Bluiting Area. 31 Appendices. 32 Agrea		Landfill 26 and Buffer Improvements
Marin Airporter		
Adventure Island Entry Gate 32, 39 Adventure Play Area. 31 Alternatives. 31 Alternatives. 32 Ammol Hill 5, 6, 7, 14, 15, 18, 22, 24, 27, 29, 30, 37 Ammol Hill 5, 6, 7, 14, 15, 18, 22, 24, 27, 29, 30, 37 Ammol Hill 5, 6, 7, 14, 15, 18, 22, 24, 27, 29, 30, 37 Any pendices 39 Appendices 39 Appendices 39 Alternatives. 39 Alternatives. 39 Art Meadow 29 Ballpark Pavilion 32 Baskethall Courts 31 Batting Cages 26, 29 Bel Marin Keys Industrial Park 14, 27 Bel Marin Keys Industrial Resource Management and Monitoring Program 32 Pacheco Creek S, 6, 8, 12, 14, 15, 16, 17, 18, 22, 24, 27, 28, 31, 32, 37 Pacheco Creek Restoration 31 Park Entry Gate 21, 29, 37 Park Pavilion/Café 30, 32, 39 Park Pavilion/Café 30, 32, 39 Park Pavilion/Café 30, 32, 39 Park Ingling 39 Park Ingling 32, 39 Park Pavilion 33, 39 Park Pavilion 34, 39, 39 Park Pavilion 34, 39		
Adventure Play Area		
Alternatives		
Ammo Hill 5, 6, 7, 14, 15, 18, 22, 24, 27, 29, 30, 37 Amphithester Hill		
Amphitheater Hill		
Appendices		
Art Meadow 29 Bailpark Pavilion 32 Basketball Courts 31 Batting Cages 26, 29 Bel Marin Keys Industrial Park 14, 27 Bibliography 39 Bibliography 39 Biblography 39 Biblography 39 Biblography 39 Capital Cost Estimates 9, 33, 31 Capital Cost Estimates 9, 33, 39 Capital Cost Estimates 9, 33, 39 City of Novato General Plan 6, 16 Commissary Site. 7, 19 Conceptual Plan 4, 6, 9, 13, 16, 20, 32, 36, 37, 39 Conceptual Plan Implementation 36 Constraints Map. 39 Coroctputal Plan Implementation 36 Constraints Map. 39 Defense Base Closure and Realignment Act of 1988 Corporation Yard 30 Defense Base Closure and Realignment Act of 1988 Description of the Conceptual Plan 7, 27 Dog Park 8, 12, 19, 30, 32, 37 Dog Park Shade Trellis 32 Encapsulated Waste at Quartermaster's Storage Yard Stimates of Operations Revenue and Expenses 10, 34 Feasibility Study 36 Gruss Volleyball 29 Group Picnic Area 11, 29, 32, 35, 39 Grass Volleyball 39 Hamilton Ommunity Recreation Facilities Implementation Plan 5, 7, 14, 15, 22, 29 Hamilton Pond 10, 30, 34 Hamilton Wetlands 4, 8, 13, 14, 24, 29, 30, 36 Hydrology Study and Wetland Delineation 36 Introduction 11, 30 Landfill 264, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 22, 24, 24 27, 28, 31, 32, 37 Park Entry Gate 32, 33 Park Dark Circle 32, 33 Park Entry Gate 32,		
Ballpark Pavilion		Noise Study
Basketball Courts.		
Batting Cages 26, 29 Pacheco Creek Restoration 31 Bel Marin Keys Industrial Park 14, 27 Bibliography 39 Park Circle 12, 29, 37 Biblogical 36 Park Entry Gate 32, 39 Bioswales 30, 31 Capital Cost Estimates 9, 33, 39 CEQA Review 36 Park Lighting 8, 29 City of Novato General Plan 6, 16 Commissary Site 7, 19 Park Pavilion/Café 30, 32, 39 Park Pavilion 30, 39 Park Pavilion 30, 39 Park Pavilion 30, 30, 34 Park Pavilion	Darkathall Counts	
Bel Marin Keys Industrial Park		
Bibliography		
Biological		
Bioswales	Diolography	Park Circle12, 29, 37
Capital Cost Estimates 9, 33, 39 Park Pavilion/Café 30, 32, 39 CEQA Review 36 Parking Plan 39 City of Novato General Plan 6, 16 Ficnic Area 31 Commissary Site 7, 19 Picnic Pavilion 32, 39 Conceptual Plan 4, 6, 9, 13, 16, 20, 32, 36, 37, 39 Project Desciption 22 Conceptual Plan Implementation 36 Project Desciption 22 Conceptual Plan Implementation 36 Project Desciption 22 Coordination with Adjacent Projects 36 Project Pinding 11, 37 Corporation Yard 30 Project Phasing 11, 37 Corporation Yard 30 Project Phasing 11, 37 Description of the Conceptual Plan 7, 27 Purpose Hamilton Meadows 7, 18 Depark Shade Trellis 32 Recommended Next Steps 4, 13 Description of the Conceptual Plan 7, 27 Remedial Action Plan for the Phase II Sale Area 7, 18 Reservoir Hill 4, 5, 6, 13, 14, 15, 16, 22, 24, 30, 37 Bog Park Shade Trellis 32 Residential Buffer		
CEQA Review 36 Parking Plan 39 City of Novato General Plan 6, 16 Pichic Area 31 Commissary Site 7, 19 Pichic Pavilion 32, 39 Conceptual Plan 4, 6, 9, 13, 16, 20, 32, 36, 37, 39 Project Description 22 Conceptual Plan Implementation 36 Project Description 22 Conceptual Plan Implementation 36 Project Description 22 Coordination with Adjacent Projects 36 Project Location 5, 14 Corporation Yard 30 Project Phasing 11, 37 Cordination with Adjacent Projects 36 Project Phasing 11, 37 Cordordination with Adjacent Projects 36 Project Phasing 11, 37 Cordordination with Adjacent Projects 36 Project Phasing 11, 37 Cordordination with Adjacent Projects 36 Project Phasing 11, 37 Cordordination with Adjacent Projects 36 Recental Manilton Meadows 7, 18 Putrose 1, 12 9, 32, 33 Recommended Next Steps 4, 13		Park Lighting 8, 29
City of Novato General Plan 6, 16 Picnic Area 31 Commissary Site 7, 19 Picnic Pavilion 32, 39 Comceptual Plan 4, 6, 9, 13, 16, 20, 32, 36, 37, 39 Project Description 22 Conceptual Plan Implementation 36 Project Design Criteria 7, 22 Conceptual Plan Implementation 36 Project Funding 11, 36 Constraints Map 39 Project Location 5, 14 Coordination with Adjacent Projects 36 Project Phasing 11, 36 Corporation Yard 30 Project Punding 11, 37 Defense Base Closure and Realignment Act of 1988 Purpose 7, 18 Demolition of Existing Bunkers 36 Propect Phasing 11, 37 Demolition of Existing Bunkers 36 Recommended Next Steps 4, 13 Description of the Conceptual Plan 7, 27 Putting Greens 29 Description of the Conceptual Plan 7, 27 Relationship to Other Projects and Plans 5, 14 Dog Park Shade Trellis 32 Residential Buffer 29 Future	Capital Cost Estimates9, 33, 39	
Commissary Site	CEQA Review36	Parking Plan
Composition 19 Project Description 22 Conceptual Plan .4, 6, 9, 13, 16, 20, 32, 36, 37, 39 Project Design Criteria 7, 22 Conceptual Plan Implementation .36 Project Design Criteria 7, 22 Constraints Map .39 Project Punding .11, 36 Coordination with Adjacent Projects .36 Project Location 5, 14 Coordination with Adjacent Projects .36 Project Phasing .11, 37 Corporation Yard .30 Project Phasing .11, 37 Project Design Criteria .7, 22 .12 Project Location .5, 14 .12 Project Design Criteria .5, 14 Project Location .5, 14 Project Design Criteria .5, 14 Project Location .5, 14 Project Design Criteria .5, 14 Project Location .5, 14 Project Design Criteria .5, 14 Project Design Criteria .5 Project Location .5 Project Design Criteria .5 Project D	City of Novato General Plan	Picnic Area31
Conceptual Plan	Commissary Site	
Conceptual Plan Implementation		
Project Location 5, 14		Project Design Criteria
Coordination with Adjacent Projects		Project Funding11, 36
Coordination with Adjacent Projects		Project Location
Defense Base Closure and Realignment Act of 1988		Project Phasing11, 37
Defense Base Closure and Realignment Act of 1988		Proposed Hamilton Meadows
Demolition of Existing Bunkers	Defense Base Closure and Realignment Act of 1988	Purpose
Demolition of Existing Bunkers		
Description of the Conceptual Plan	Demolition of Existing Bunkers	
Dog Park 12, 19, 30, 32, 37 Dog Park Shade Trellis 32 Remedial Action Plan for the Phase II Sale Area 7, 18 Dog Park Shade Trellis 32 Reservoir Hill 4, 5, 6, 13, 14, 15, 16, 22, 24, 30, 37 Residential Buffer 29 Roller Hockey Court 31 Residential Buffer 29 Roller Hockey Court Stand Residential Buffer 29 Roller Hockey Court Stand Residential Buffer 29 Roller Hockey Court Stand Residential Buffer Roller Hockey Court Residential Park Roller Hockey Court Residential Buffer Roller Hockey Court Residential Park	Description of the Conceptual Plan	
Dog Park Shade Trellis		
Residential Buffer 29	Dog Park Shade Trellis	
Samily Study S		
Sand Volleyball Courts 31	-	
Feasibility Study 36 Scheme 1 Water Theme 32 Future Studies 36 Scheme 2 Sports Theme 32 Golf Center 11, 29, 32, 35, 39 Scheme 3 Nature Theme 32 Grass Volleyball 29 Sculpture Garden 29 Group Picnic Area 31 Seasonal Wetlands 31 Hamilton Community Park 1, 4, 5, 9, 13, 14, 16, 33 Shade Structure at Tot Lot 32, 39 Hamilton Field Community Recreation Facilities Skate Park 20, 26, 31 Implementation Plan 6, 16 Special Event Parking Management 8, 27 Hamilton Wetland Restoration Plan 6, 17 Special Events Plan 39 Hamilton Wetlands 4, 8, 13, 14, 24, 29, 30, 36 Sports Court Island 31 Hydrology Study and Wetland Delineation 36 Sports Pavilion 31 June 14, 1999 20 Steering Committee Input 39 Landfill 264, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 23, 24, Sunrise Terrace 30 25, 27, 29, 33 Sunrise Terrace 30	Estimates of Operations Revenue and Expenses 10, 34	
Future Studies 36 Scheme 2 Sports Theme 32 Golf Center 11, 29, 32, 35, 39 Scheme 3 Nature Theme 32 Grass Volleyball 29 Sculpture Garden 29 Group Picnic Area 31 Seasonal Wetlands 31 Hamilton Community Park 1, 4, 5, 9, 13, 14, 16, 33 Shade Structure at Tot Lot 32, 39 Hamilton Field Community Recreation Facilities Shade Structure at Tot Lot 32, 39 Implementation Plan 6, 16 Special Event Parking Management 8, 27 Hamilton Master Plan 10, 30, 34 Special Events Plan 39 Hamilton Wetland Restoration Plan 6, 17 Sports Court Island 31 Hamilton Wetlands 4, 8, 13, 14, 24, 29, 30, 36 Sports Court Island 7, 9, 12, 27, 31, 33, 37 Hydrology Study and Wetland Delineation 36 Sports Pavilion 31 Introduction 13 Sports Pavilion & Restroom 31 June 14, 1999 20 Steering Committee Input 39 Landfill 264, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 23, 24, Sunrise Terrace 30		
Golf Center 11, 29, 32, 35, 39 Scheme 3 Nature Theme 32 Grass Volleyball 29 Sculpture Garden 29 Group Picnic Area 31 Seasonal Wetlands 31 Hamilton Community Park 1, 4, 5, 9, 13, 14, 16, 33 Shade Structure at Tot Lot 32, 39 Hamilton Field Community Recreation Facilities Shade Structure at Tot Lot 32, 39 Implementation Plan 6, 16 Special Event Parking Management 8, 27 Hamilton Master Plan 5, 7, 14, 15, 22, 29 Special Events Plan 26, 30, 31, 39 Hamilton Wetland Restoration Plan 6, 17 Special Events Plan 39 Hamilton Wetlands 4, 8, 13, 14, 24, 29, 30, 36 Sports Court Island 31 Hydrology Study and Wetland Delineation 36 Sports Pavilion 31 Introduction 13 Sports Pavilion & Restroom 31 June 14, 1999 20 Steering Committee Input 39 Landfill 264, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 23, 24, Sunrise Terrace 30 25, 27, 29, 33 Sunset Hill 31		
Grass Volleyball 29 Sculpture Garden 29 Group Picnic Area 31 Seasonal Wetlands 31 Hamilton Community Park 1, 4, 5, 9, 13, 14, 16, 33 Shade Structure at Tot Lot 32, 39 Hamilton Field Community Recreation Facilities Skate Park 20, 26, 31 Implementation Plan 6, 16 Special Event Parking Management 8, 27 Hamilton Master Plan 5, 7, 14, 15, 22, 29 Special Events 26, 30, 31, 39 Hamilton Wetland Restoration Plan 6, 17 Sports Court Island 31 Hamilton Wetlands 4, 8, 13, 14, 24, 29, 30, 36 Sports Court Island 7, 9, 12, 27, 31, 33, 37 Hydrology Study and Wetland Delineation 36 Sports Pavilion 31 Introduction 13 Sports Pavilion & Restroom 31 June 14, 1999 20 Steering Committee Input 39 Landfill 264, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 23, 24, Sunrise Terrace 30 25, 27, 29, 33 Sunset Hill 31		Scheme 3 Nature Theme
Group Picnic Area 31 Seasonal Wetlands 31 Hamilton Community Park 1, 4, 5, 9, 13, 14, 16, 33 Shade Structure at Tot Lot 32, 39 Hamilton Field Community Recreation Facilities Skate Park 20, 26, 31 Implementation Plan 6, 16 Special Event Parking Management 8, 27 Hamilton Master Plan 10, 30, 34 Special Events 26, 30, 31, 39 Hamilton Wetland Restoration Plan 6, 17 Sports Court Island 31 Hamilton Wetlands 4, 8, 13, 14, 24, 29, 30, 36 Sports Court Island 7, 9, 12, 27, 31, 33, 37 Hydrology Study and Wetland Delineation 36 Sports Pavilion 31 Introduction 13 Sports Pavilion & Restroom 31 June 14, 1999 20 Steering Committee Input 39 Landfill 264, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 23, 24, Sunrise Terrace 30 25, 27, 29, 33 Sunset Hill 31		
Hamilton Community Park	Group Picnic Area	
Hamilton Field Community Recreation Facilities Skate Park 20, 26, 31 Implementation Plan 6, 16 Special Event Parking Management 8, 27 Hamilton Master Plan 5, 7, 14, 15, 22, 29 Special Events 26, 30, 31, 39 Hamilton Pond 10, 30, 34 Special Events Plan 39 Hamilton Wetland Restoration Plan 6, 17 Sports Court Island 31 Hamilton Wetlands 4, 8, 13, 14, 24, 29, 30, 36 Sports Court Island 7, 9, 12, 27, 31, 33, 37 Hydrology Study and Wetland Delineation 36 Sports Pavilion 31 Introduction 13 Sports Pavilion & Restroom 31 June 14, 1999 20 Steering Committee Input 39 Landfill 264, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 23, 24, Sunrise Terrace 30 25, 27, 29, 33 Sunset Hill 31		
Implementation Plan 6, 16 Special Event Parking Management 8, 27 Hamilton Master Plan 5, 7, 14, 15, 22, 29 Special Events 26, 30, 31, 39 Hamilton Pond 10, 30, 34 Special Events Plan 39 Hamilton Wetland Restoration Plan 6, 17 Sports Court Island 31 Hamilton Wetlands 4, 8, 13, 14, 24, 29, 30, 36 Sports Court Island 7, 9, 12, 27, 31, 33, 37 Hydrology Study and Wetland Delineation 36 Sports Pavilion 31 Introduction 13 Sports Pavilion & Restroom 31 June 14, 1999 20 Steering Committee Input 39 Landfill 264, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 23, 24, Sunrise Terrace 30 25, 27, 29, 33 Sunset Hill 31		
Hamilton Master Plan 5, 7, 14, 15, 22, 29 Special Events 26, 30, 31, 39 Hamilton Pond 10, 30, 34 Special Events Plan 39 Hamilton Wetland Restoration Plan 6, 17 Sports Court Island 31 Hamilton Wetlands 4, 8, 13, 14, 24, 29, 30, 36 Sports Court Island 7, 9, 12, 27, 31, 33, 37 Hydrology Study and Wetland Delineation 36 Sports Pavilion 31 Introduction 13 Sports Pavilion & Restroom 31 June 14, 1999 20 Steering Committee Input 39 Landfill 264, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 23, 24, Sunrise Terrace 30 25, 27, 29, 33 Sunset Hill 31	Implementation Plan 6 16	Special Event Porking Management 9 27
Hamilton Pond 10, 30, 34 Special Events Plan 39 Hamilton Wetland Restoration Plan 6, 17 Sports Court Island 31 Hamilton Wetlands 4, 8, 13, 14, 24, 29, 30, 36 Sports Court Island 7, 9, 12, 27, 31, 33, 37 Hydrology Study and Wetland Delineation 36 Sports Pavilion 31 Introduction 13 Sports Pavilion & Restroom 31 June 14, 1999 20 Steering Committee Input 39 Landfill 264, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 23, 24, Sunrise Terrace 30 25, 27, 29, 33 Sunset Hill 31	Hamilton Master Plan 5 7 1/1 15 22 20	Special Events 26, 20, 21, 20
Hamilton Wetland Restoration Plan 6, 17 Hamilton Wetlands 31 Hydrology Study and Wetland Delineation 36 Introduction 13 June 14, 1999 20 Landfill 264, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 23, 24, 25, 27, 29, 33 31 Sports Court Island 7, 9, 12, 27, 31, 33, 37 Sports Pavilion 31 Sports Pavilion & Restroom 31 Steering Committee Input 39 Sunrise Terrace 30 Sunset Hill 31		Special Events Disp.
Hamilton Wetlands 4, 8, 13, 14, 24, 29, 30, 36 Sports Court Island 7, 9, 12, 27, 31, 33, 37 Hydrology Study and Wetland Delineation 36 Sports Pavilion 31 Introduction 13 Sports Pavilion & Restroom 31 June 14, 1999 20 Steering Committee Input 39 Landfill 264, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 23, 24, 25, 27, 29, 33 Sunrise Terrace 30 Sunset Hill 31		
Hydrology Study and Wetland Delineation 36 Sports Pavilion 31 Introduction 13 Sports Pavilion & Restroom 31 June 14, 1999 20 Steering Committee Input 39 Landfill 264, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 23, 24, 25, 27, 29, 33 Sunrise Terrace 30 Sunset Hill 31		
Introduction		
June 14, 1999 20 Steering Committee Input 39 Landfill 264, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 23, 24, 25, 27, 29, 33 Sunrise Terrace 30 Sunset Hill 31		
Landfill 264, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 23, 24, 25, 27, 29, 33 Sunrise Terrace		
25, 27, 29, 33 Sunset Hill		Steering Committee Input
21		

Tennis Center31	Traffic Study	36
Tennis Pavilion	Typical Shade Trellis	32
The Black Forest31	Utility Infrastructure Plan	
The Great Meadow 7, 8, 9, 10, 12, 27, 29, 33, 34, 37	Vehicular Access and Parking	8. 27
The History of Landfill 26	Volleyball Pavilion	32
The Landfill 26 Flood Diversion Berm	Water Play	26.30
The Steering Committee	Wedding Pavilion/Band Stand	30. 32. 39
Top Ten Park Use Ideas	Wildlife Buffer	29
Tot Lot		

		And the second of the second o
		Concer
		de de la companya de

Proposed Hamilton Community Park

Final Report Supplemental Exhibits

August 1999

Prepared for:

The City of Novato, California

Department of Parks, Recreation & Community Services

Prepared by:

BSA Architects

Carducci & Associates, Inc.

The Sports Management Group

					*
		~			
					The state of the s
		•			and the second

Hamilton Community Park Final Report

August 1999

List of Figures

Phase II GSA Sale Parcel Vicinity Map Project Study Area North Hamilton Parcel Phase II GSA Sale Parcel New Hamilton Partnership Master Plan (Phase II) Land Uses on the Phase II GSA Sale Parcel and Adjacent Lands Land Use and Zoning Designations Draft Architectural Rendering of BRAC Property Around L26 Wetlands Previously Identified in the Phase II GSA Sale Parcel Satellite Photo January 1989 NHP Master Plan (2/99) MTBE Plume Constraints Map Conceptual Plan (color) Conceptual Plan (black & white) Alternative 1 Water Theme Alternative 2 Sports Theme Alternative 3 Nature Theme Access Control Plan Special Events Plan Parking Plan Schematic Utility Infrastructure Plan Lighting Plan

Park Buildings

Park Entry Gate
Adventure Island Entry Gate
Wedding Pavilion/Band Stand
Park Pavilion/Café
Typical Restroom/Concession
Picnic Pavilion
Golf Center
Shade Structure at Tot Lot

File Name: BSA2-98/Report/List of Figures

•	•			
				1
	•			¥
	•			
				1
,				
			•	
				-
				Samuel Comments

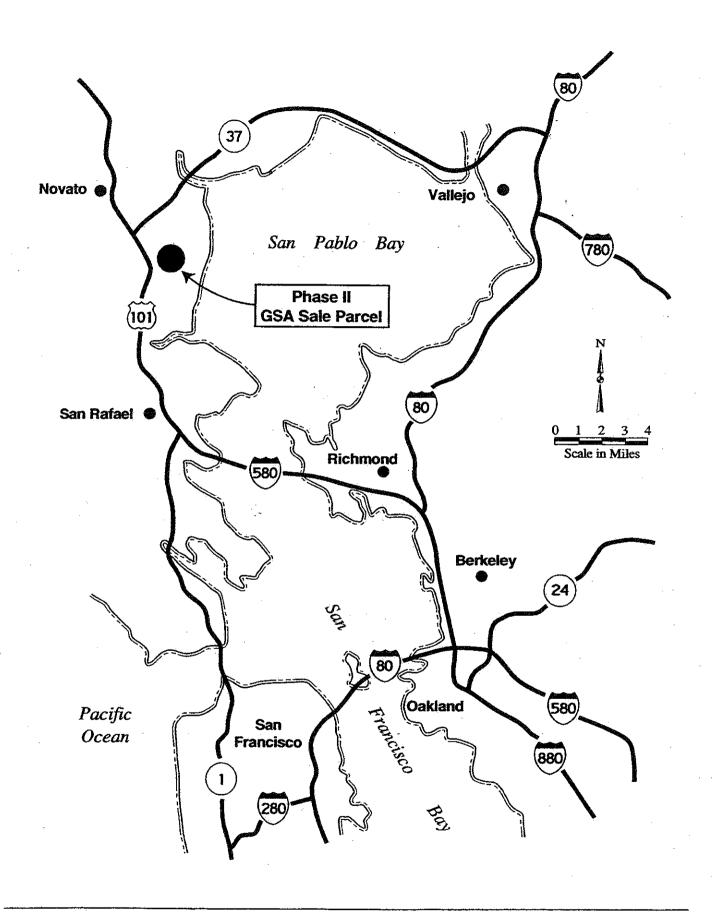
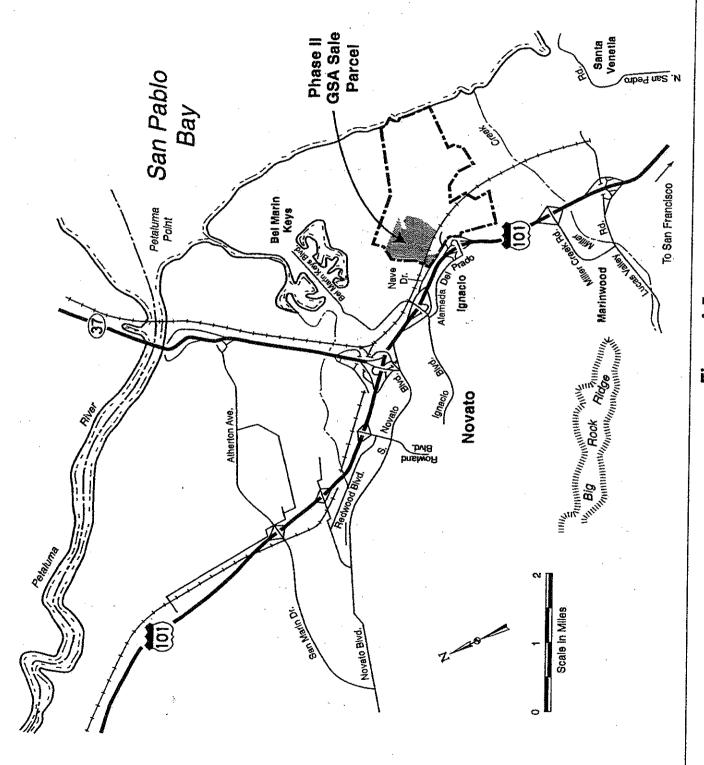
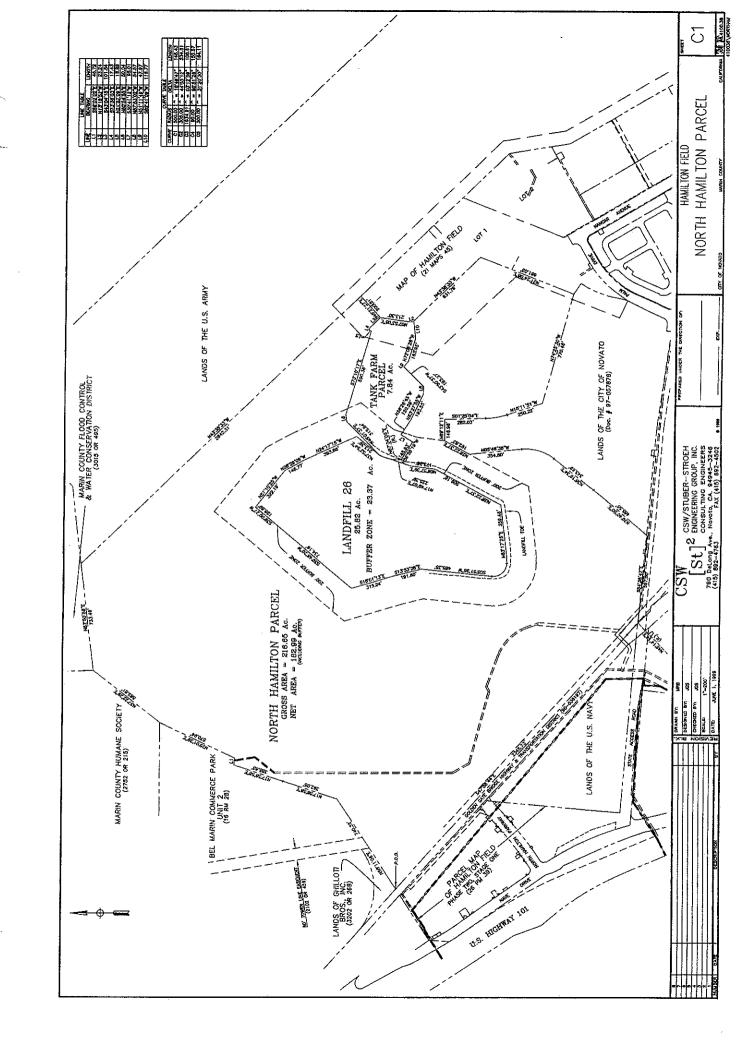


Figure 2-1
Phase II GSA Sale Parcel Vicinity Map





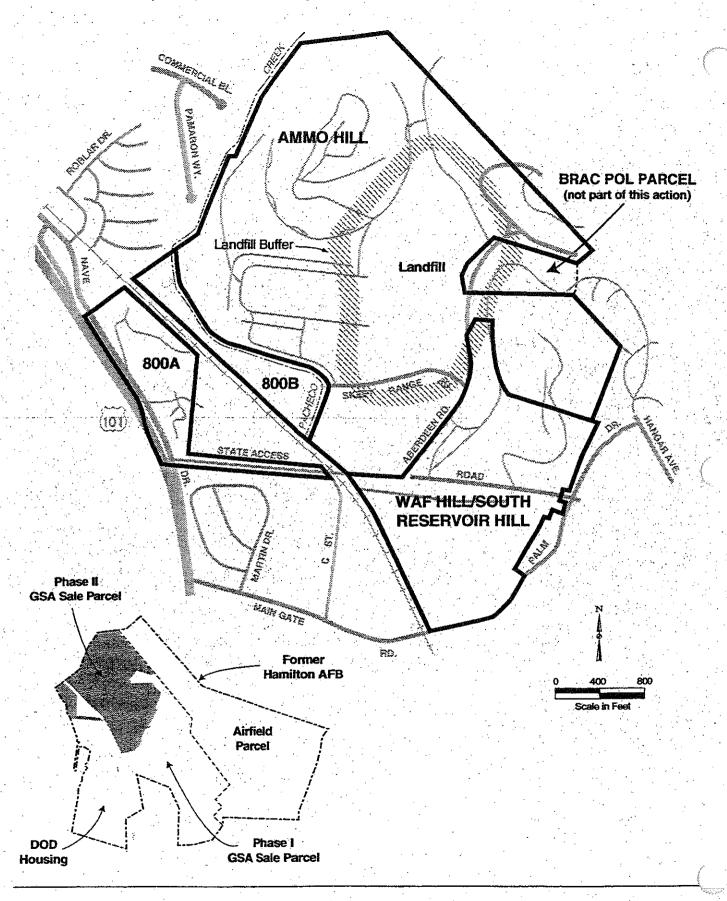
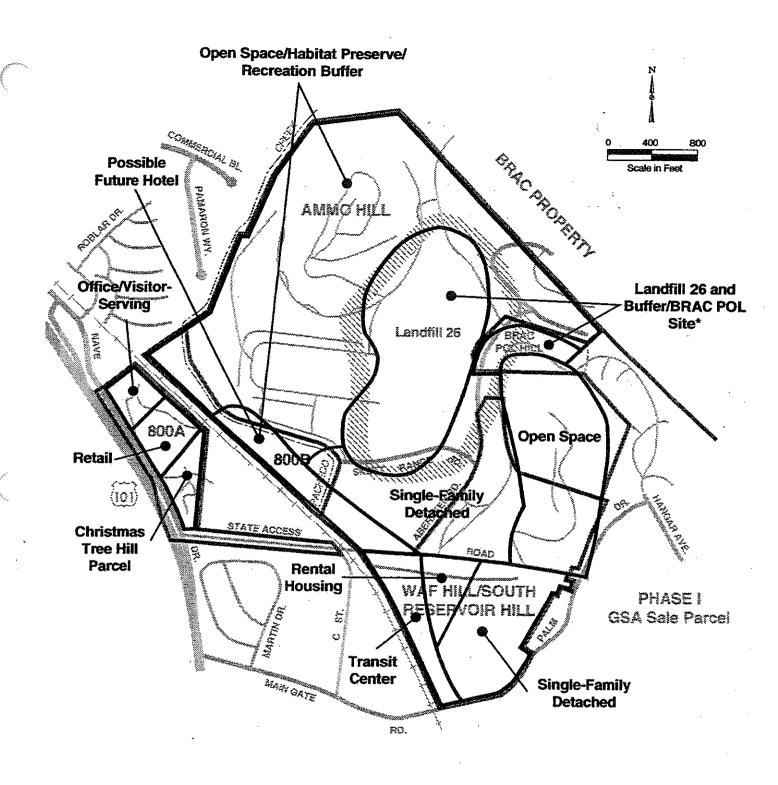


Figure 1-1
Phase II GSA Sale Parcel



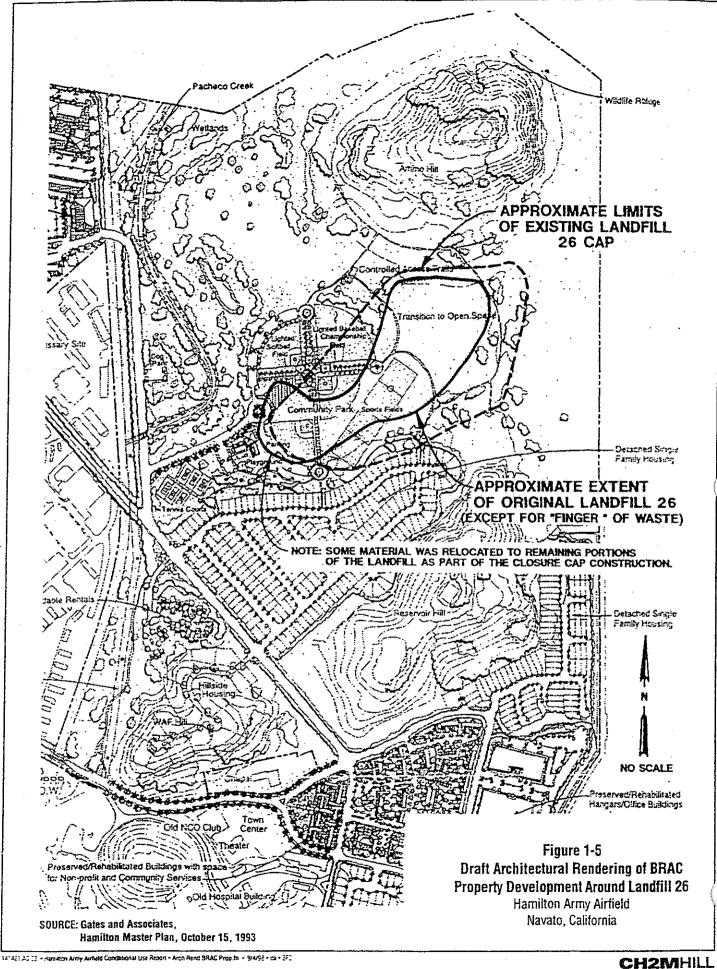
*Landfill 26 and buffer: north = open space; south = recreation BRAC POL site: open space/habitat preserve.

Figure 1-3
New Hamilton Partnership Master Plan (Phase II)



Figure 4-1
Land Uses on the Phase II GSA Sale Parcel and Adjacent Lands

CH2WHILL



Site Inventory (Approx. acarage) TOTAL: 23.62 D46 D32 D18 5.40 77. 4 8 1.13 ST. VINCENTS PROPERTY (COUNTY OF MARIN) - NOVATO CITY LIMITS - D.O.D. HOUSING __ Potential Jurisdictional Wetland (Jones & Stokes Associates 1997) Salaria Corps Jurisdictional Wetland - D.O.D. HOUSING NORTHWESTERN PACIFIC RAILROAD 0 -0 0 STATE ACCESS ROAD LEGEND -- PALM DRIVE - WAF HILL HANGAR ROW OLD HEADOUARTERS AREA MAIN GATE ROAD HAMILTON SCHOOL NAVY SUPPORT SERVICES RESERVOIR HILL ALAMEDA DEL PRADO LANHAM CHRISTMAS TREE HILL RUNWAY PROJECT BOUNDARY-NAVE DRIVE HAMILTÓN ARMY
AIRFIELD
BOUNDARY LOS ROBLES TRAILER PARK PACHECO CREEK BEL'MARIN COMMERCE PARK HIGHWAY 101

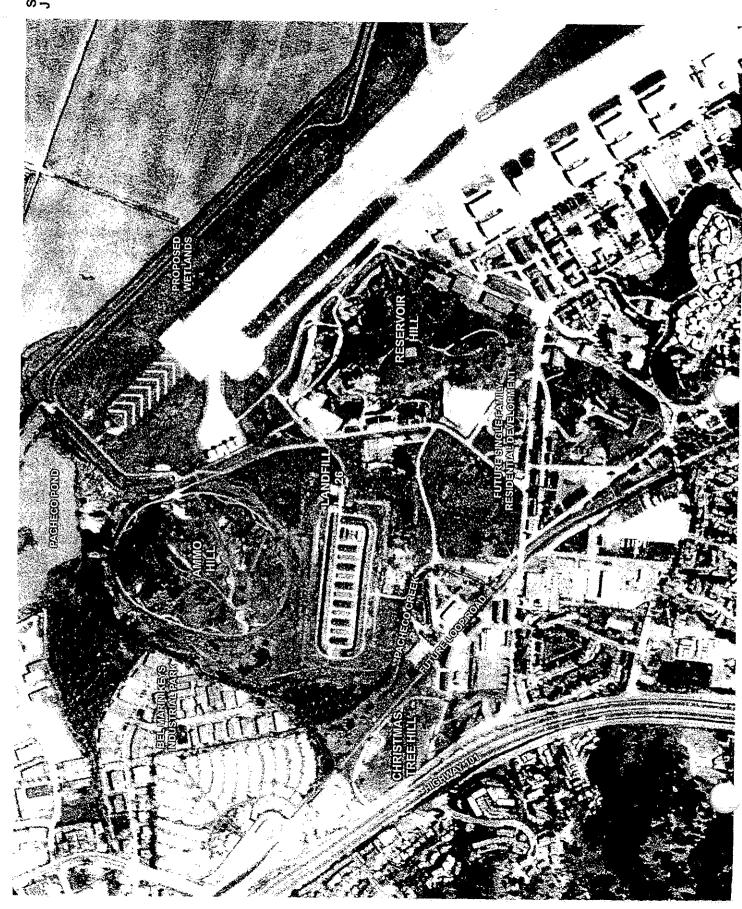
AMINO

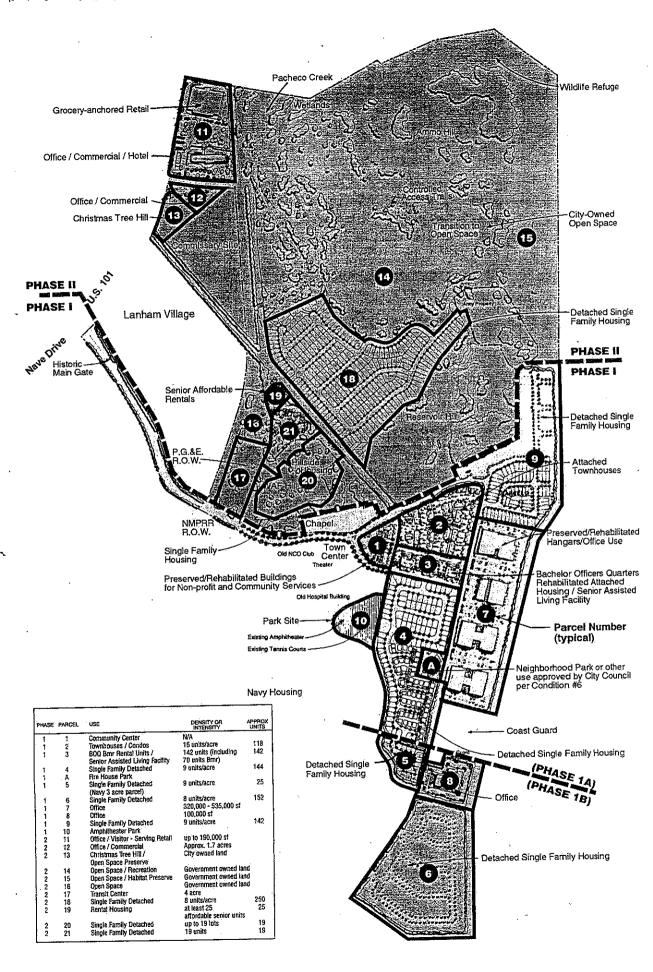
5

Wetlands Previously Identified in the Phase II GSA Sale parcel

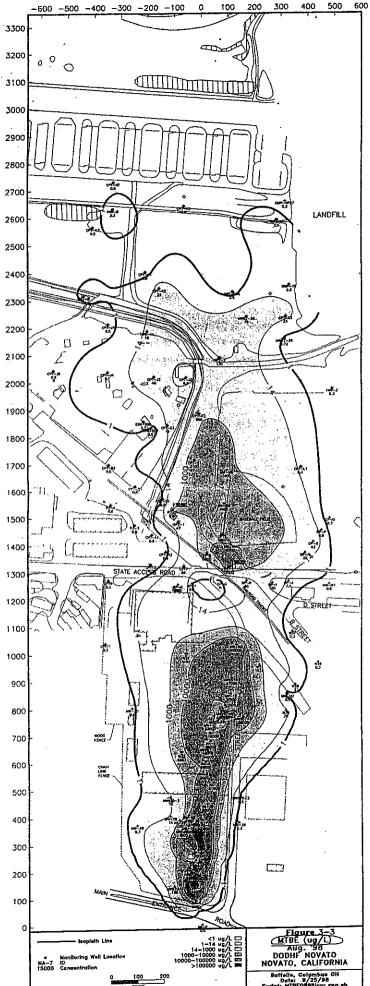
Figure 4-8

Source: Based on Eil Associates 1993 and Jones & Stokes Associates 1997 field recommissance visit.



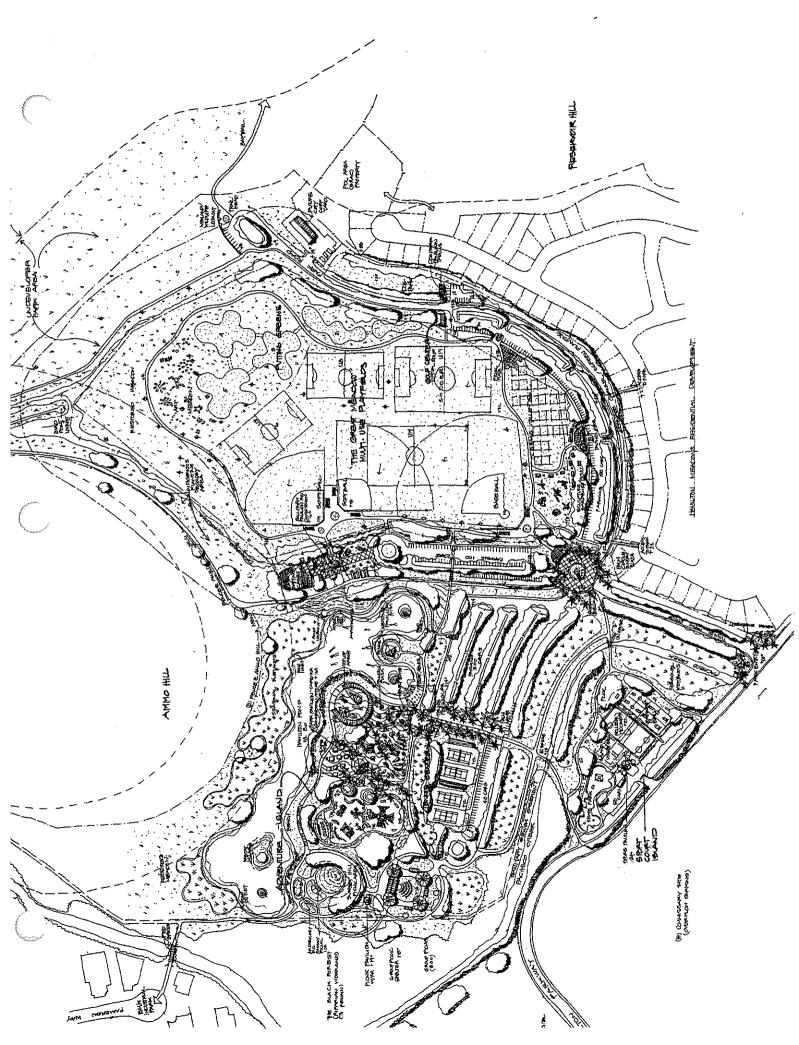


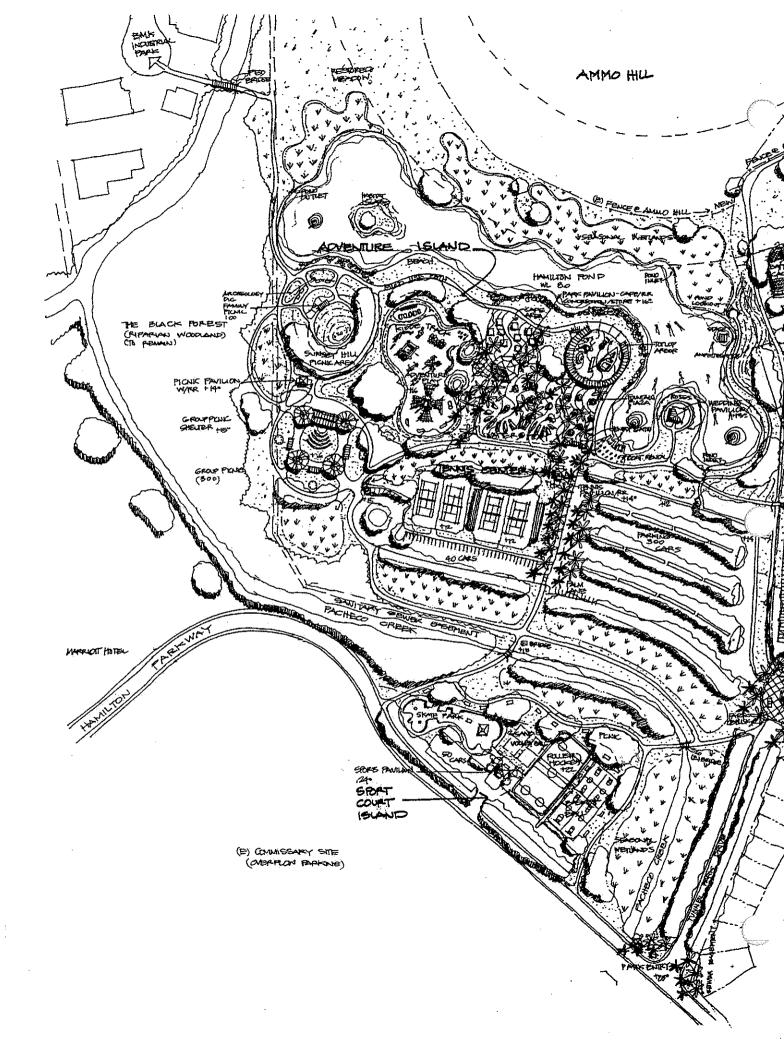
Bill pan

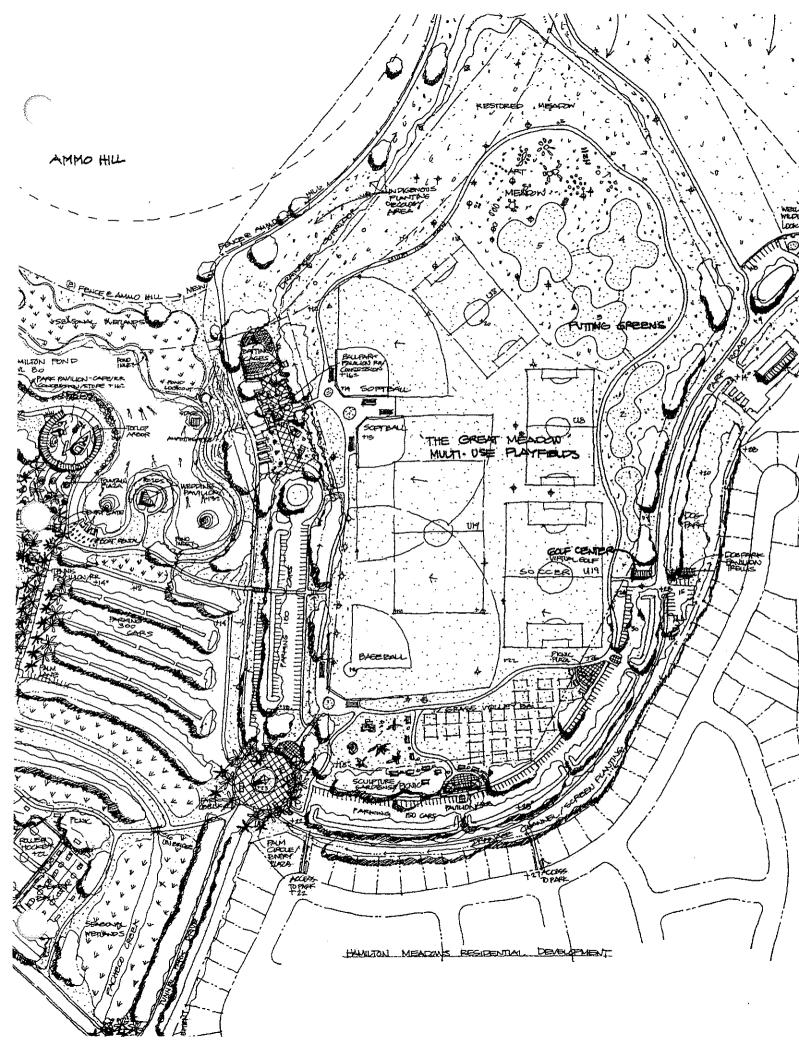


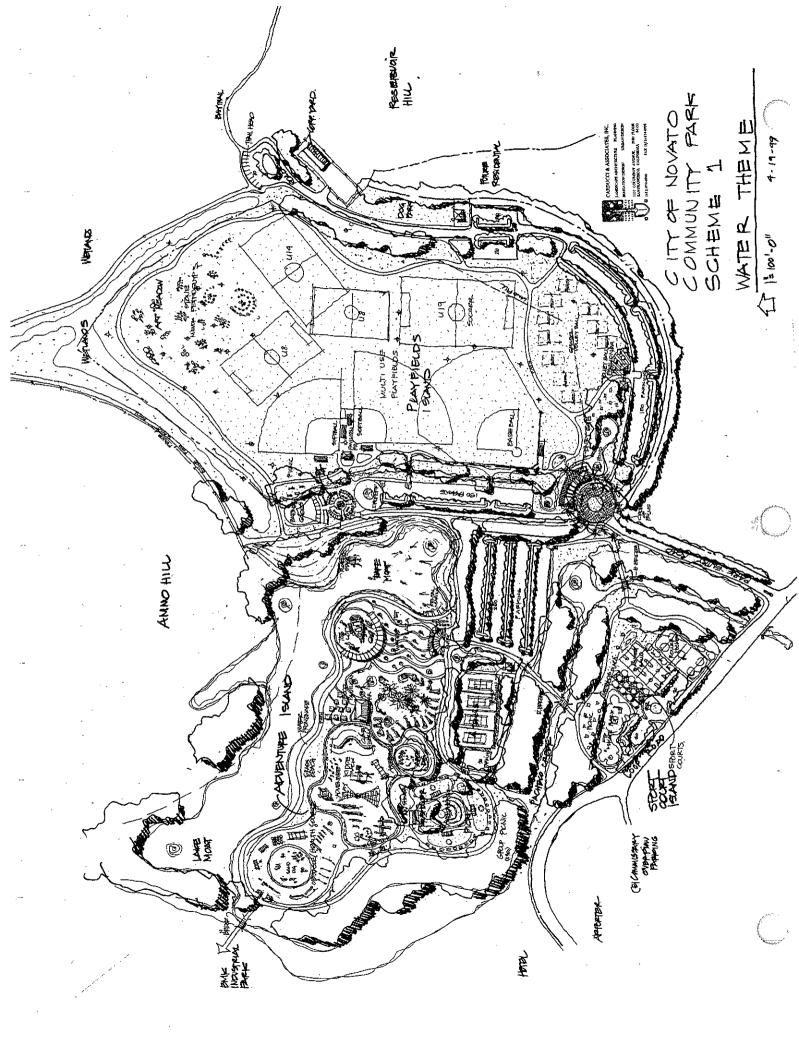


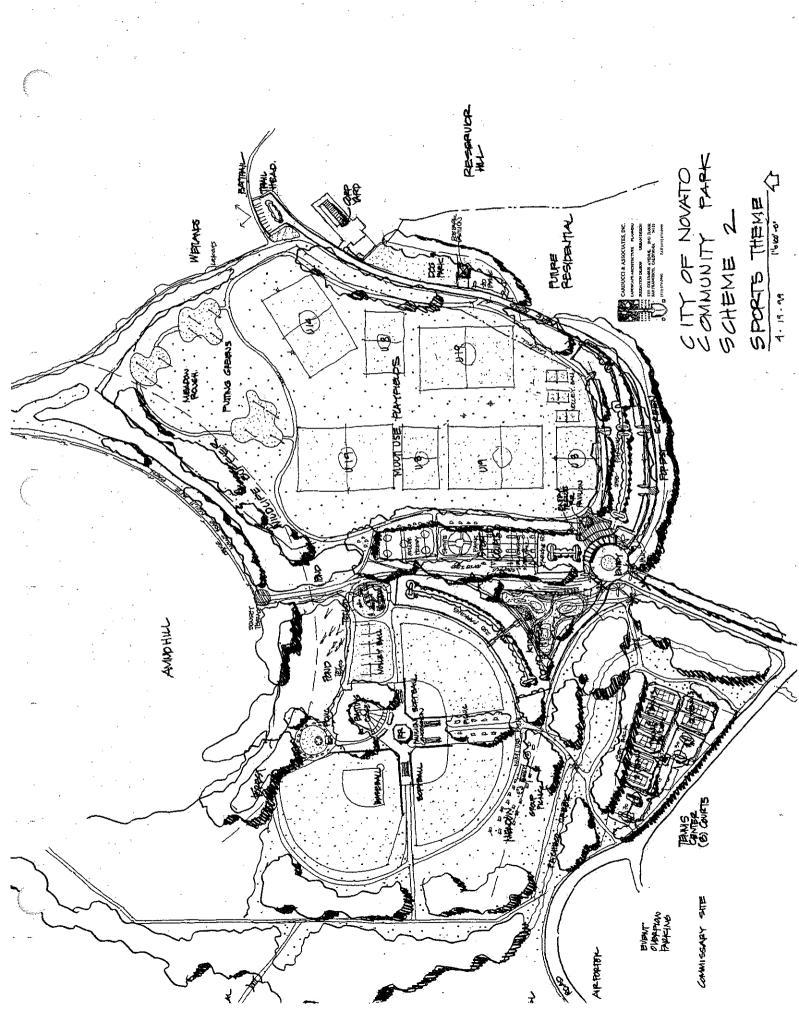


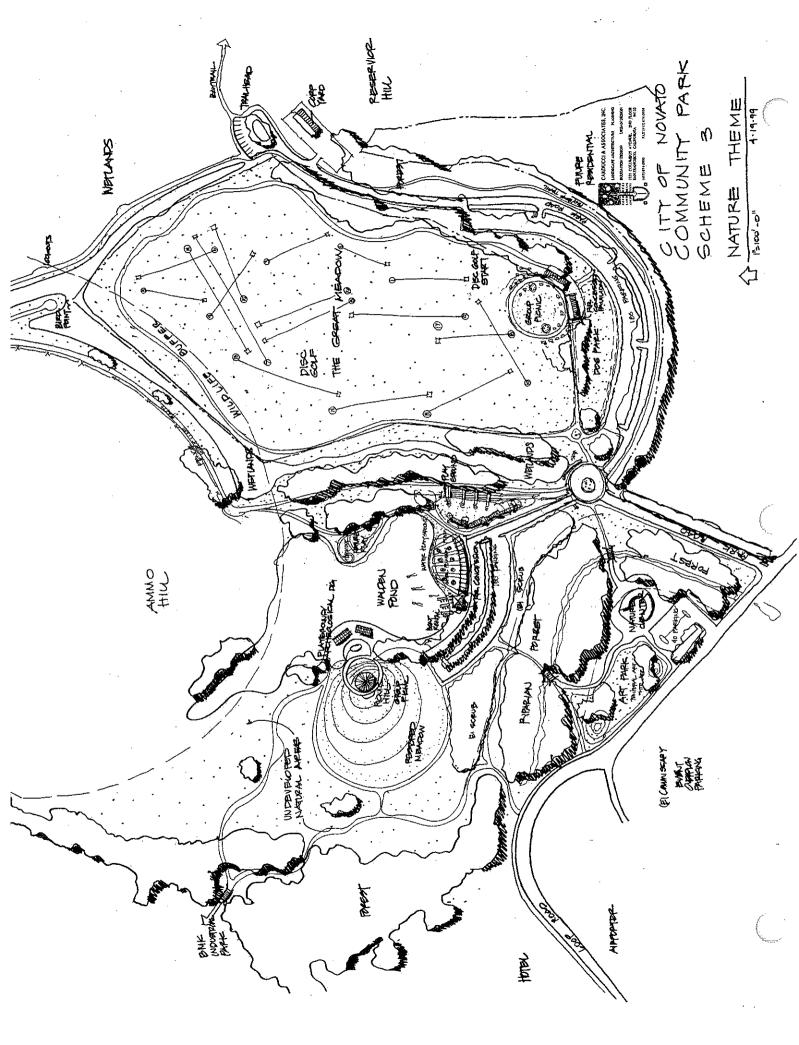


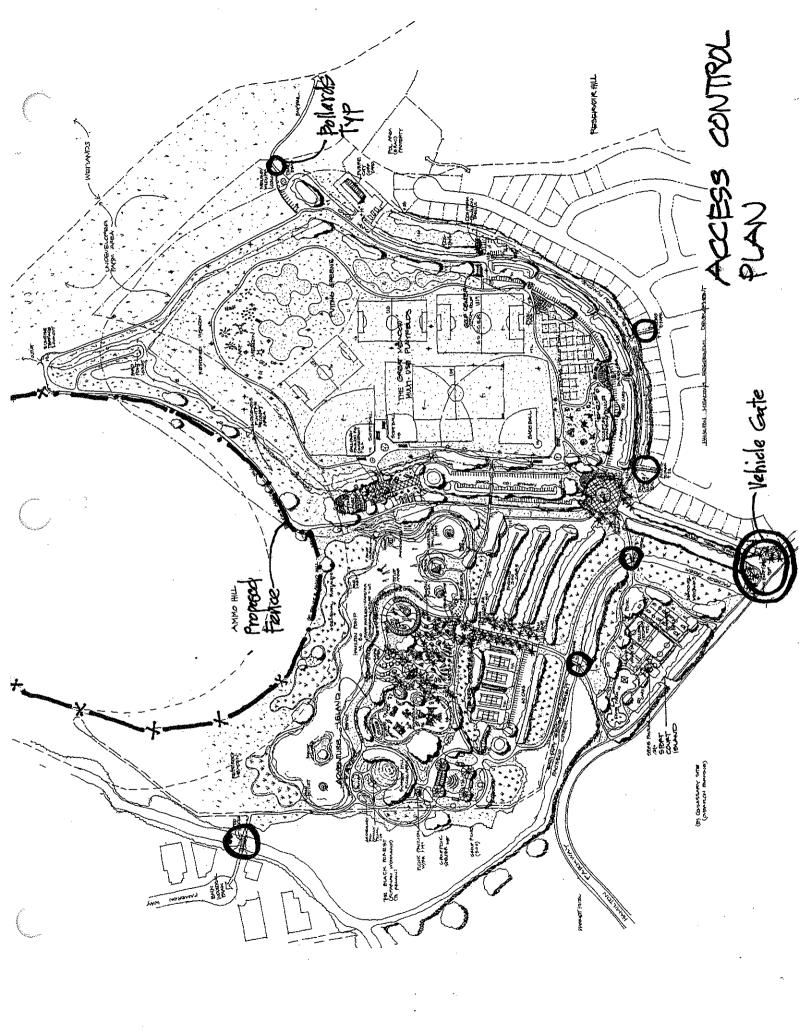


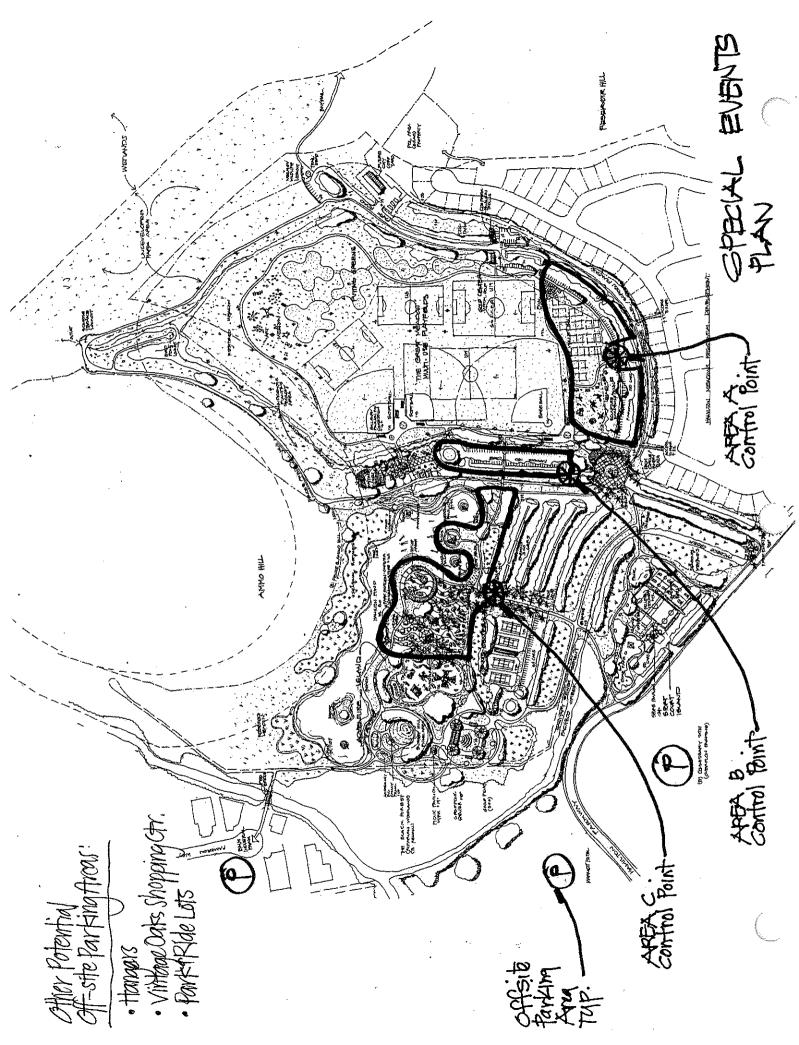


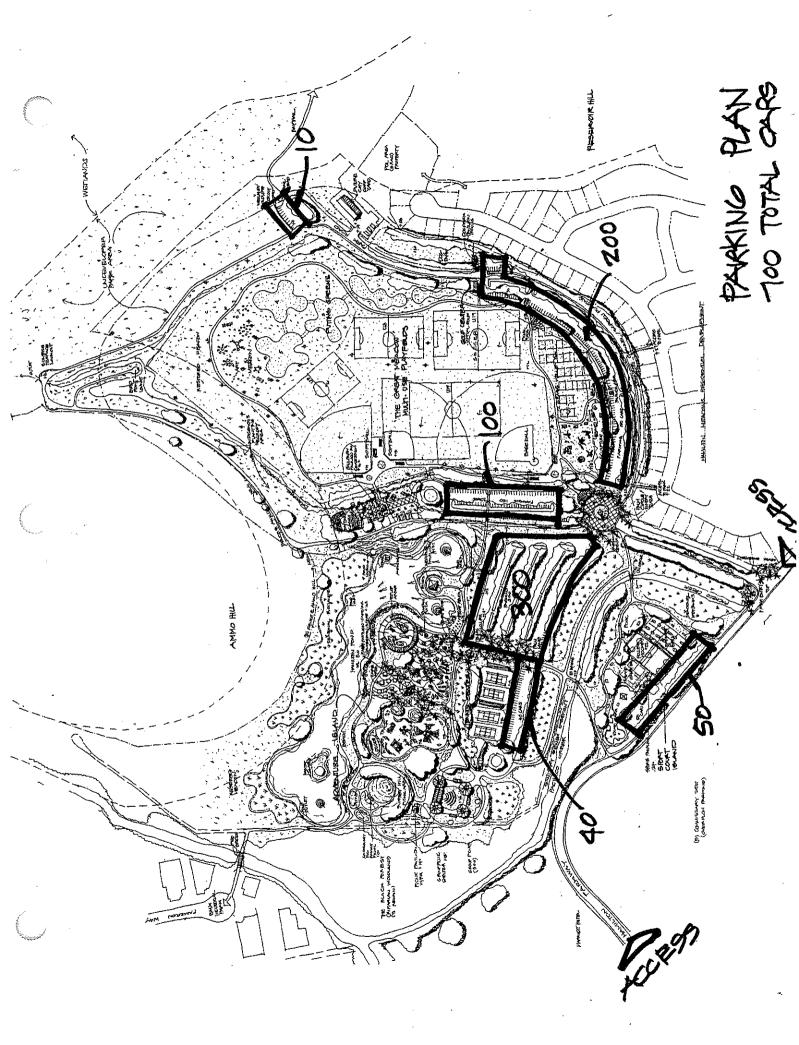


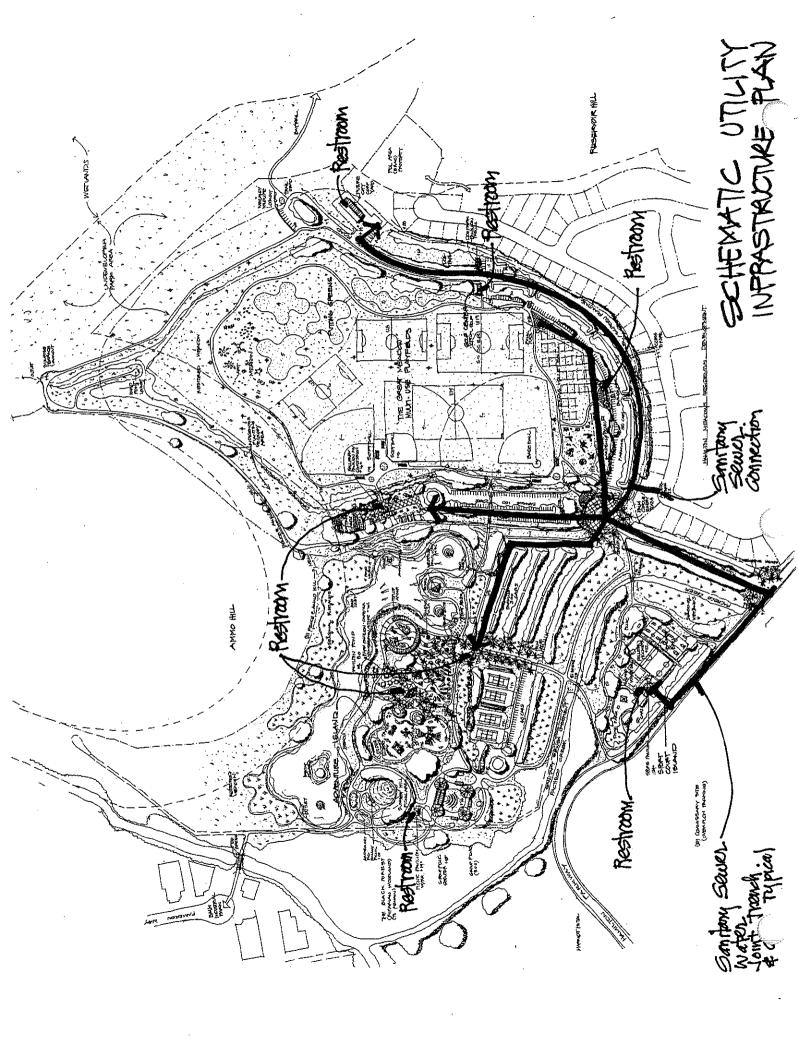


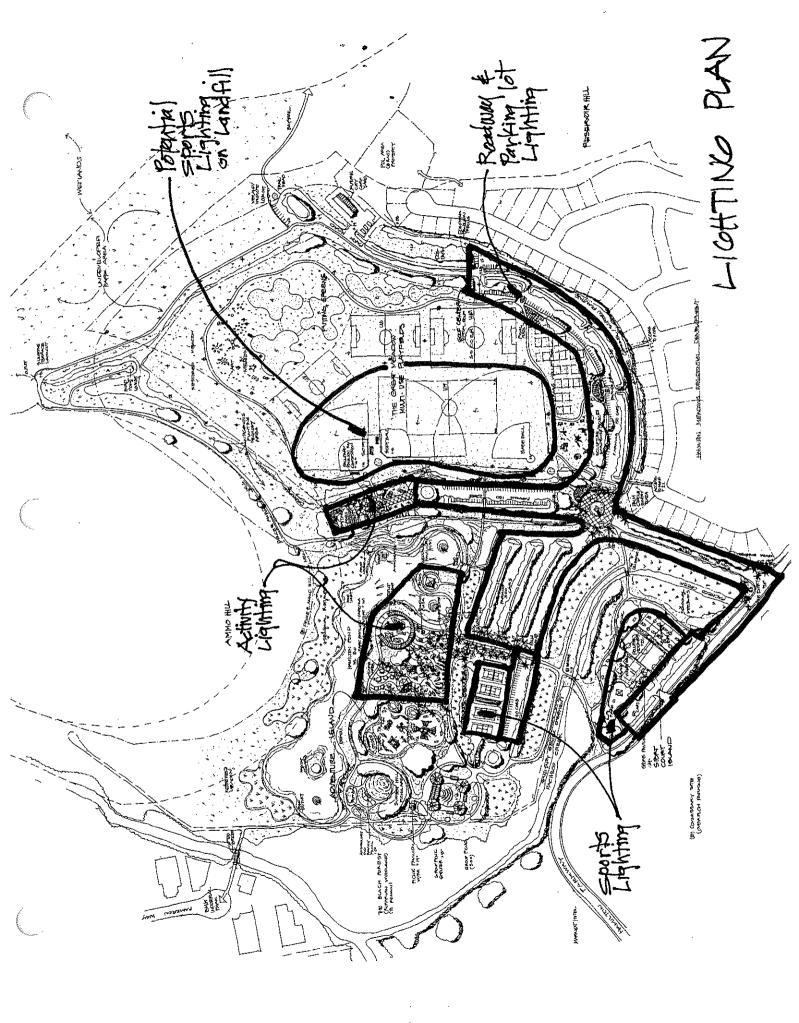


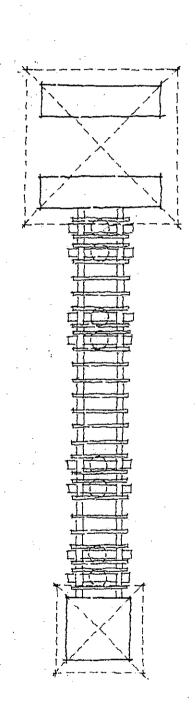


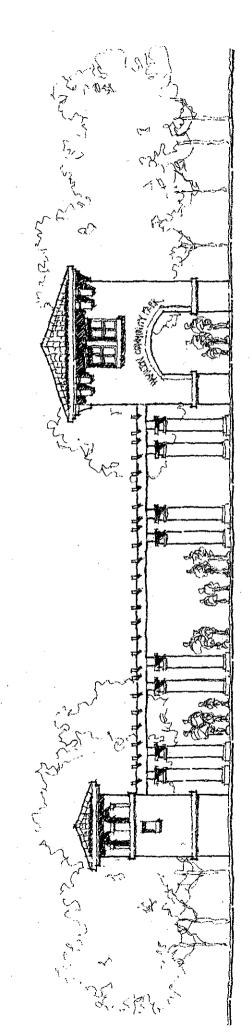




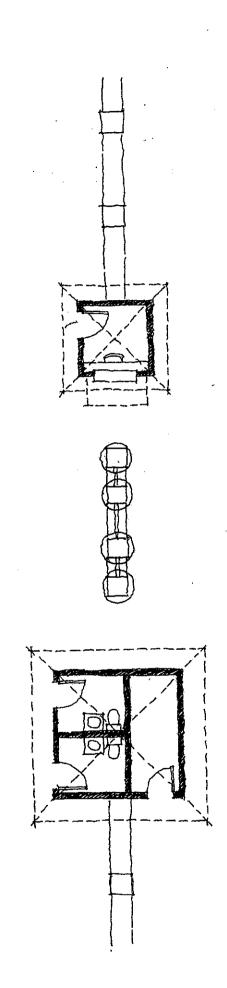


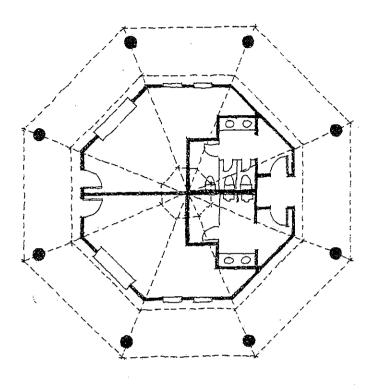


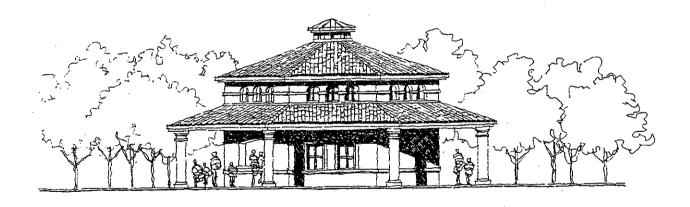




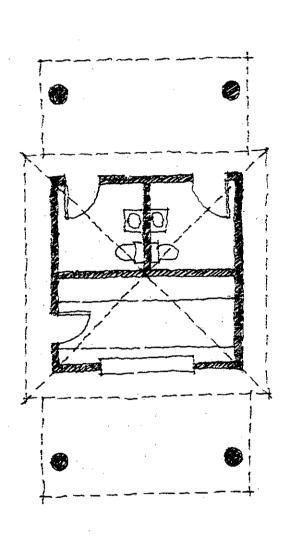
ADVENTURE (SLAND BENTRY GATE

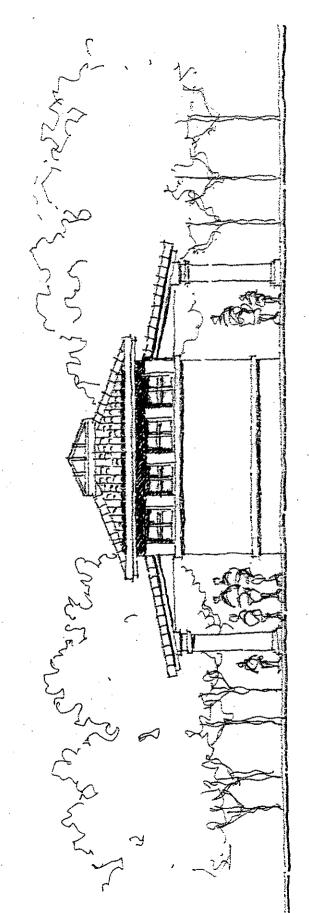


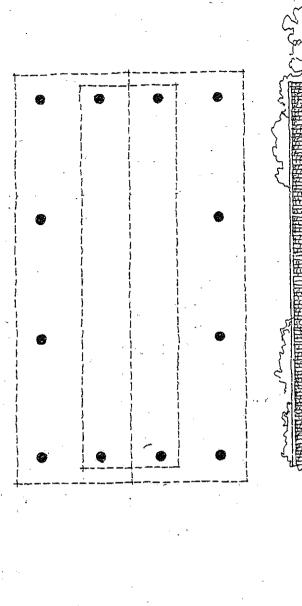


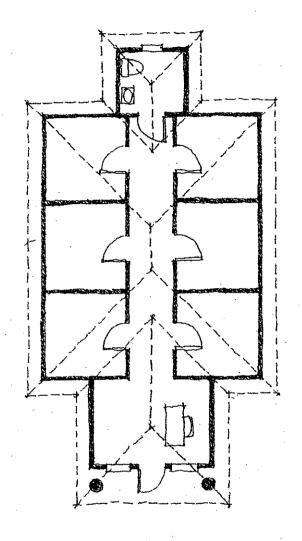


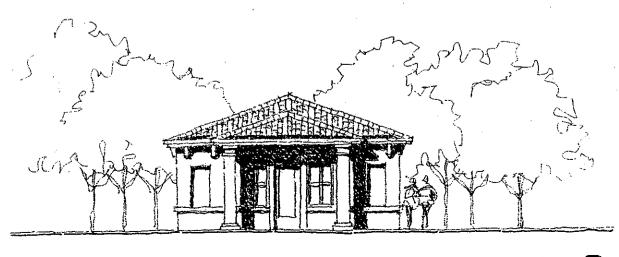
PARK PAVILION/CAFE



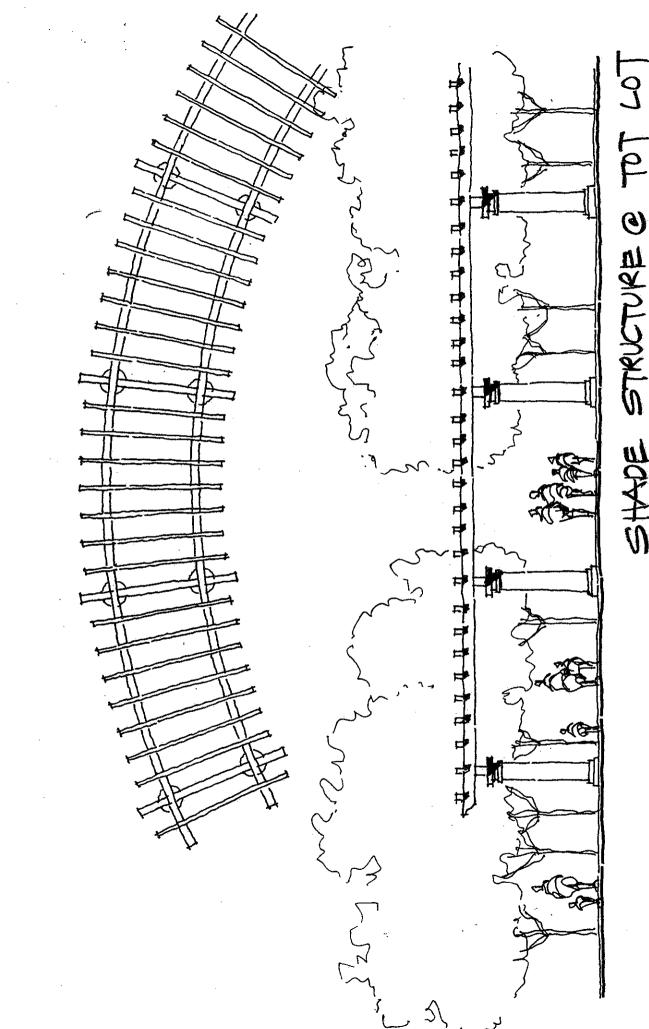








GOLF CENTER



SHADE STRUCTURED TOT LOI

Hamilton Community Park Final Report

August 1999

Appendices

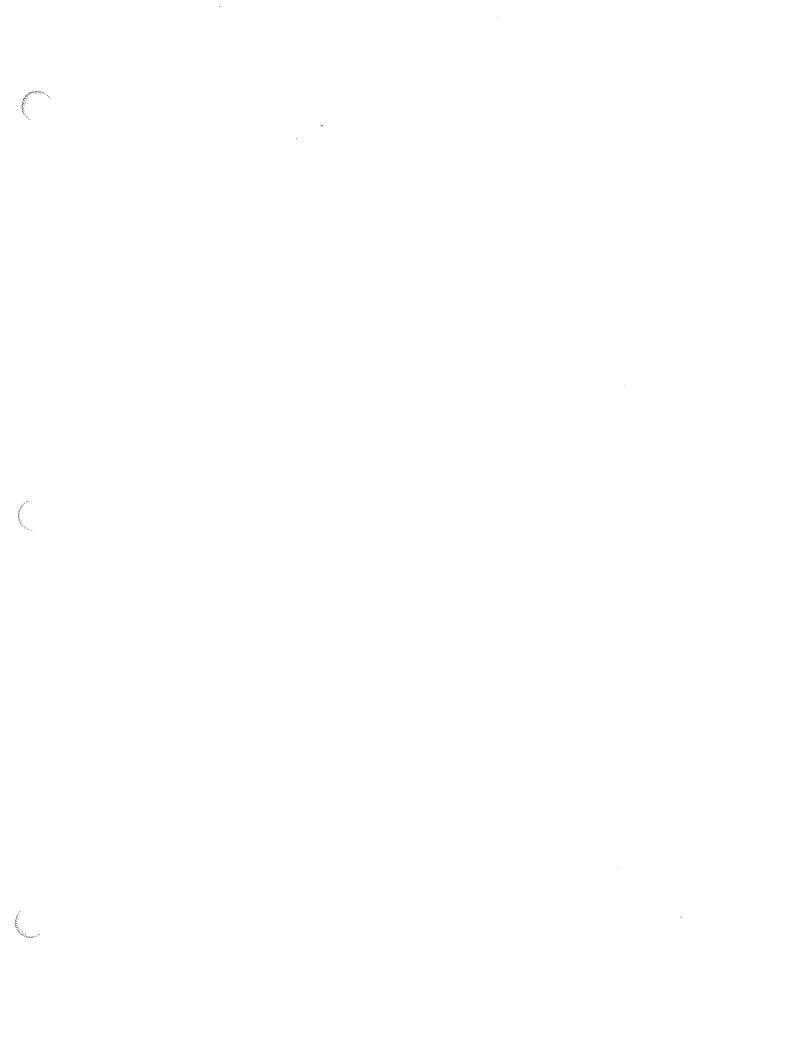
Bibliography

Capital Cost Estimates

Steering Committee Input

Exhibit A from Memorandum of Agreement #2976

File Name: BSA2-98/Report/List of Appendices



Hamilton Community Park Final Report

August 1999

Bibliography

Cap Sub-drainage Piping System and Outlets US Army Corps of Engineers Omaha District Plans For Landfill #26 Phase II Sheets G-09, G-10

Contaminated Area at Building 750 (5,000 Gal. Underground Fuel Oil Tank) IT Corporation Tank Removal Project Contract DACA 45-86-C-0140

Contaminated Area at Building 783 (Tank B01) IT Corporation Tank Removal Project Contract DACA 45-86-C-0140

V-Ditch at Landfill Ch2mHill for the Department of the Army Landfill Grading/Drainage Adjustments Sheets C-5, C-6

Extraction Well, Settlement Monument, Gas Monitoring Probe, Observation Riser, and Monitoring Well Locations
US Army Corps of Engineers
Land Use Restrictions and Maintenance Requirements for Conditional-Use Permit
Appendix C
Pages C-6 to C-11

Contaminated Area at Quarter Masters Yard Ch2mHill for the Department of the Army, Landfill Grading/Drainage Adjustments Sheet C-5

Suspected Contaminated Area at Quarter Masters Yard Remedial Action Plan Contract No. DACW 05-95-D-0001 June 1998 Fig. 7-1 Page 7-2

Skeet Range Contaminated Soil Remedial Action Plan Contract No. DACW 05-95-D-0001 June 1998 Fig. 7-1 Page 7-2, Fig 3-14 Page 3-44

> Proposed Hamilton Community Park Bibliography August 1999 Page 1 of 2

Expected Minimum and Maximum Landfill Settlement U.S. Army Corps of Engineers Final Design Analysis, Hamilton AFB, Remedial Action, Landfill 26, Phase II Vol. 1, July 1993

Wildlife Corridors Hamilton Master Plan Novato, California Oct. 15 1993

Expected Flood Impact
Assessment of The Impacts of The Landfill 26 Berm on Local And Regional Flood Elevations
Philip Williams & Associates, Ltd.
Nov. 20 1998

Proposed Subdivision and Coinciding Edge of Landfill Buffer Hamilton Field Revised Tentative Map - Phase II Lot 4 And Open Space, Sheet 3 Oct. 1993 (With Revisions Through 10/23/96)

And

Hamilton Meadows Proposed Tentative Map April 1999

And

Proposed Text on Landfill 26 Buffer Zone to be Included in Closure Report from the Department of the Army
May 1999

Hamilton Wetland Restoration Plan EIR/EIS, (August 4, 1998) Jones & Stokes Associates, Inc. Draft

File Name: BSA2-98/Report/Bibliography

Hamilton Community Park

Conceptual Plan

Novato, California

Carducci & Associates, Inc. 1331 Columbus Avenue, 2nd Floor

San Francisco, CA 9413 7/21/9

tem A. COMMUNITY PARK DRIVE	Quantit	y Unit	Cost	Total		Item Subtotal
Finish Grading a. Finish Grading	_	_				
b. Sedimentation Control		acre	\$2,500	\$7,500		
b. Sedimentation Control	1,500) If	\$5	\$7,500	1	
2. Primary Utility Service						
a. Sanitary Sewer (6")	650) If	\$32	ቀባለ በለሰ		
b. Sanitary Sewer Manholes (350' oc)	3		\$2,000	\$20,800		
c. Sanitary Sewer Lift Station	1		\$20,000	\$6,000		
d. Water (8")	650		\$20,000 \$45	\$20,000		
e. Fire Hydrants (500' oc)	2		\$2,400	\$29,250		
f. Electrical & Lighting		. Ca	Ψ 2 ,400	\$4,800		
i. Primary Service	1	ls	\$20,000	620,000		
ii. Roadway Lighting	3		\$3,000	\$20,000		
iii. Path Lighting	2		\$2,000	\$9,000		
g. Joint Trench	650			\$4,000		
h. Storm Drain (15" diameter)	200		\$35 \$35	\$22,750		
i. Drop Inlets			\$25	\$5,000		
j. Outlet at Creek	2		\$1,800	\$3,600		
k. Storm Drain Filter	1	ea	\$1,800	\$1,800		
ic storm brain rine;	1	ea	\$10,000	\$10,000		
3. Asphalt Concrete Paving					2. Subtotal	\$157,000
a. Multi-use Path (10' wide)	050	45	***			
b. Tunnel Road (2 Lane)	650		\$30.00	\$19,500		
c. Tunnel Road (Additional 2 Lanes)	650		\$75	\$48,750		
c. Turner Road (Additional 2 Laries)	650	lf	\$ 75	\$48,750		
4. Planting & Irrigation					3. Subtotal	\$117,000
a. Trees, 15 gal.						فهومها
b. Bubbler Irrigation for Trees	65	ea	\$125	\$8,125		*C _{1/2}
c. Non-irrigated Meadow Grasses	65	ea	\$50	\$3,250		
C. Nothingated Meadow Glasses	65,000	sf	\$0.25	\$16,250		
					4. Subtotal	\$27,625
5. Park Signs	2	ea	\$5,000	\$10,000		
6. Park Security Gates	2	ea	\$5,000	\$10,000		
7 Maintenance (OR D)			40,000	Ψ10,000		
7. Maintenance (90 Days)	65,000	İs	\$0.03	\$1,950		
A. Subtotal				\$338,575		
THE GREAT MEADOW (Landfill 26 and Buffer)						
1. Finish Grading						
a. Finish Grading	40	асге	\$2,500	\$100,000		
b. Sedimentation Control	5,000		\$5	\$25,000		
	·		*-	420,000		
Secondary Utility Service (South Buffer)						
a. Sanitary Sewer (6")	2,150	if	\$32	\$68,800		
b. Sanitary Sewer Manholes (350' oc)	6	ea	\$2,000	\$12,000		
c. Water (8")	2,150	ea	\$45	\$100,000		
d. Fire Hydrants (500' oc)	5	lf	\$2,400	\$12,000		
e. Electrical & Lighting			• •	7,		
i. Primary Service	1	ea	\$20,000	\$20,000		
ii. Roadway Lighting	10	ls	\$3,000	\$30,000		
iii. Path Lighting	12	ea	\$2,000	\$24,000		
f. Joint Trench	2,150	ea	\$35	\$75,250		
g. Storm Drain (15" diameter)	300	If	\$25	\$7,500		
h. Bioswales Parallel to Aberdeen Road	4,600	if	\$3	\$13,800		
i. Headwalls	2	ea	\$1,8 0 0			1
	-		Ψίμουσ	\$3,600	2 Cubécé-I	****
					2. Subtotal	\$366,950

^{3.} Secondary Utility Service (West Buffer)

Hamilton Community Park Conceptual Plan

Novato, California

Carducci & Associates, Inc. 1331 Columbus Avenue, 2nd Floor San Francisco, CA 94133 7/21/99

item Subtotal
\$154,200
\$679,000
÷
**
\$932,500

Hamilton Community Park

Conceptual Plan

Novato, California

Carducci & Associates, Inc. 1331 Columbus Avenue, 2nd Floor

San Francisco, CA 94133

7/21/9

m		Quantity	Unit	Cost	Total		Item Subtotal
19. T	ot Lot	1	ea	\$75,000	\$75,000		
					\$75,000		
20. D	lioswale Play Area	1	ea	\$25,000	\$25,000		
21. P	licnic Plaza (20,000 sf)	1	ea	\$50,000	\$50,000		
22. P	edestrian Bridges (Pre-engineered)	3	ea	\$30,000	\$90,000		
23. S	pecial Events Utility Service (South Buffer)						
a.	. Utility Connection @ 30' oc	75	ea	\$2,500	\$187,500		
	Sanitary Sewer (4")	800		\$2 7	\$21,600		
C,	Water (4")	800	lf	\$27	\$21,600		
d.	Electrical Service	1	ls	\$20,000	\$20,000		
e.	Joint Trench	80Ö		\$35	\$28,000		
				Ψ00	Ψ20,000	23. Subtotal	£270 700
24 6-	posisi Francis I With Coming ON 1 D C.					20. Gubtotai	\$278,700
24. OJ	pecial Events Utility Service (West Buffer) Utility Connection @ 30' oc	90		00 Fáo			
	Electrical Service	30		\$2,500	\$75,000		
D.	Liectrical Service	1	ls	\$20,000	\$20,000		
	t Meadow & Sculpture Garden						
a.	Allowance	2	ea	\$10,000	\$20,000		
26 Sr	ports Lighting						
	Allowance	1	00	\$500.000	# E00.000		
		•	ea	\$500,000	\$500,000		1
27. Ma	aintenance (90 Days)	850,000	sf	\$0.03	\$25,500		
	B. Subtot	al		· · · · · · · · · · · · · · · · · · ·	\$5,021,850		
1. Ea a.	OVENTURE ISLAND (25 acres) arthwork Earthwork		acre	\$5,000	\$125,000		
D.	Sedimentation Control	4,000	lf	\$5	\$20,000		
2. Fin	nish Grading	25	acre	\$2,500	\$62,500		
3. Se	condary Utility Service						
a. \$	Sanitary Sewer (6")	1,700	lf	\$32	\$54,400		
	Sanitary Sewer Manholes (350' oc)	5	ea	\$2,000	\$10,000		
	Sanitary Sewer Lift Station	1	ea	\$300,000	\$300,000		
d. \	Water (8")	1,700	If	\$45	\$76,500		
	Fire Hydrants (500' oc) Electrical & Lighting	4	ea	\$1,000	\$4,000		
	i. Secondary Service	1	ls	\$20,000	\$20,000		
	ii. Parking Lot Lighting	3	ea	\$3,000	\$9,000		
	iii. Path Lighting	50	ea	\$2,000	\$100,000		
g. J	Joint Trench	1,700	lf	\$35	\$59,500		
h. E	Bioswales	750	if	\$3	\$2,250		
i. S	easonal Wetlands		sf	\$3	\$225,000		
j. S	torm Drain (15" diameter)	200	lf	\$30			
	leadwalls	1	ea	\$30 \$1,800	\$6,000 \$7,200		
		•		,000	Ψ1,200	3. Subtotal	\$873,850
4. Veh	nicular Paving						•
	Parking Spaces (Main Lot)	300 d	ars	\$1,000	\$300,000		1
	Parking Spaces (Tennis/Group Picnic)	40 c		\$1,000 \$1,000			- Angelijki
	Secondary Road (To Group Picnic)	500	if	\$1,000 \$75	\$40,000 \$37,500		***
_	, (000	"	ΨΙΟ	\$37,500	4. Subtotal	\$277 EAA
						4. Subtotal	\$37 7,500

Hamilton Community Park

Conceptual Plan

Novato, California

Carducci & Associates, Inc. 1331 Columbus Avenue, 2nd Floor San Francisco, CA 94133

Item		Quantity	Unit	Cost	Total		Item Subtotal
5	. Special Paving	10,000	sf	\$6	\$60,000		
6	. Multi-use Paths (10' wide)	10,000	lf	\$20	\$200,000		
	. Water Play Area	,		•	7		
•	a. Water Play Area	10,000	sf	\$25	ድ ንደብ ሰብብ		
	b. Interactive Fountain Plaza	10,000		\$25 \$25	\$250,000 \$250,000		
		10,000	SI	ΨΖΟ	\$250,000		
8.	. Tot Lot	1	ea	\$150,000	\$150,000		
9.	. Tot Lot Arbor	3,000	sf	\$25	\$75,000		
10.	. Food Court	15,000	sf	\$8	\$120,000		
11.	Adventure Play Area W/ Kiddy Track	50,000	sf	\$5	\$250,000		-
12.	Sunset Hill Picnic Area	65,000	sf	\$3	\$195,000		
40	Casua Diania Anna						-
13.	. Group Picnic Area	75.000	_				
	a. Group Picnic Area	75,000	sf	\$3	\$225,000		
	b. Group Picnic Structure	1	ea	\$150,000	\$150,000		
	c. Shade Structure and Kitchen	3	ea	\$35,000	\$105,000		
	d. Picnic Pavilion w/ Restroom (2WC)	1	ea	\$75,000	\$75,000		
						13. Subtotal	\$555,000
14.	Site Furnishings (50 sets of tables and Chairs)	50	ea	\$1,000	\$50,000		
15.	Hamilton Pond						
	a. Pond Construction	5.	ac	\$50,000	\$250,000		
	b. Filtration & Circulation System	1	ea	\$100,000	\$100,000		
	c. Pond Edge (Clean Conc. Rubble)	4,000	If	\$25	\$100,000		
	d. Boat Dock	1	ea	\$50,000	\$50,000		
	e. Floating Stage (20'x40')	1	ea	\$25,000	\$25,000		
	f. Grass Beach	7,500	sf	\$3	\$22,500		
	g. Pond Inlet Structure	600	lf	\$30	\$18,000		
	h. Pond Outlet Structure	300	lf	\$30	\$9,000		
	I. Seasonal Wetlands Adjacent to Pond	90,000	sf				
	i. Seasonal Wellands Adjacent to Fond	90,000	21	\$1	\$90,000	45 044	4007.500
						15. Subtotal	\$664,500
16.	Planting & Imigation						
	a. Tree, 24" box	20	ea	\$250	\$5,000		
	b. Tree, 15 gal	160	ea	\$125	\$20,000		
	c. Bubbler Irrigation for Trees	200		\$50	\$10,000		
	d. Planting & Irrigation	220,000	sf	\$1	\$220,000		
	e. Palm Trees	20	ea	\$2,500	\$50,000		
	f. Seasonal Wetlands South of Island	110,000	sf	\$1	\$110,000		
						16. Subtotal	\$415,000
17.	Perimeter Fence at Adventure Island	2,600	lf [.]	\$25	\$65,000		
18.	Wedding Pavilion/Band Stand (1,225 sf)	1	ea	\$75,000	\$75,000		
19.	Park Pavilion (1,050 sf) w/ Restroom (6WC)	1	ea	\$200,000	\$200,000		
20.	Educational Exhibits	1	ls	\$10,000	\$10,000		
			•				
21.	Pacheco Creek Bridge (Pre-engineered) (Emergency Vehicle Access)	1	ea	\$100,000	\$100,000		

Hamilton Community Park

Conceptual Plan

Novato, California

Carducci & Associates, Inc.

1331 Columbus Avenue, 2nd Floor San Francisco, CA 9413

7/21/9

Item			Quantity	Unit	Cost	Total		Item Subtotal
21.	. Special Events Utility Service	7567			V 031	, viai		rem androisi
	a. Utility Connection @ 30' oc		30		\$2,500	\$75,000		
	b. Electrical Service		1	Is	\$20,000	\$20,000		
22	. Tennis Center							
44 .	a. Lighted Tennis Courts		4	00	\$45,000	6490,000		
	b. Tennis Pavilion w/ Restroom (2WC)		1	ea ea	\$45,000 \$75,000	\$180,000		
	c. Bleachers		2,000		φ <i>1</i> 5,000 \$5	\$75,000 \$10,000		
	d. Perimeter Paving		7,000		\$3	\$21,000		
	• •		1,000	O,	40	Ψ2 1,000	22. Subtotal	\$286,000
							LL. Odbtotai	4200,000
23.	Maintenance (90 Days)		200,000	sf	\$0.03	\$6,000		
		C. Subtotal				\$5,530,350		
D	SPORTS COLIDT ISLAND (4.0 comm)							
	SPORTS COURT ISLAND (4.0 acres) Earthwork							
1-	a. Earthwork, Clearing and Grubbing				AC 000	A#		
	b. Sedimentation Control			acre	\$5,000	\$20,000		
	b. Sedimentation Control		2,200	if	\$5	\$11,000		
2	Finish Grading		4	acro	ቀኅ ድለሰ	£40.000		
	Visitori Grading		-	acre	\$2,500	\$10,000		
3.	Secondary Utility Service							
	a. Sanitary Sewer (6")		100	lf	\$32	\$3,200		
	b. Sanitary Sewer Manholes (350' oc)		1	ea	\$2,000	\$2,000		
	c. Water (8")		100	lf	\$45	\$4,500		
	d. Fire Hydrants (500' oc)		1	ea	\$1,000	\$1,000		pros
	e. Electrical & Lighting				, ,,,	*.,		· ·
	i. Secondary Service		1	is	\$20,000	\$20,000		V.
	ii. Parking Lot Lighting		3	ea	\$3,000	\$9,000		
	iii. Path Lighting		12	ea	\$2,000	\$24,000		
	iv. Sports Lighting		24	ea	\$2,000	\$48,000		
	f. Joint Trench		100	lf	\$3 5	\$3,500		
							3. Subtotal	\$115,200
4	Vehicular Paving							
	a. Parking Spaces		50	cars	\$1,000	ቀ ደለ ለበለ		
	a. I alking opaces		30	Cais	\$1,000	\$50,000		
5.	Special Paving		4,000	sf	\$6.00	\$24,000		
			,	О.	ψο.σσ	Ψ2-+,000		
6.	Multi-use Paths (10' wide)		3,000	lf	\$20.00	\$60,000		
					• • •	****,****		
	Sports Courts							
	a. Sand Volleyball Court		2	ea	\$10,000	\$20,000		
	b. Roller Hockey Court		1	ea	\$250,000	\$250,000		
	c. Basketball Courts		4	ea	\$25,000	\$100,000		
	d. Sports Pavilion (2WC)		1	ea	\$75,000	\$75,000		
	e. Skate Park	: 0	1	ea	\$185,000	\$185,000		
	f. Pedestrian Bridge (Pre-engineered) (if	requirea)	2	ea	\$30,000	\$60,000		
		•					7. Subtotal	\$690,000
g :	Planting & Imigation							
	a. Tree, 24" box		20		¢050	ውር ለ ስላ		
	b. Tree, 15 gal		20 60	ea ea	\$250 \$125	\$5,000 \$7,500		
	c. Bubbler Irrigation for Trees		85	ea	\$125 \$50	\$7,500 \$4,250		
	d. Planting & Irrigation		65,000	sf	\$1	\$ 4 ,250 \$65,000		a
	e. Palm Trees			ea	\$2,5 00	\$12,500		and the second
1	f. Creek Restoration		120,000	sf	\$1	\$120,000	•	E in many
Ç	g. Seasonal Wetlands Adjacent to Creek		80,000	sf	\$ 1	\$80,000		
	-				* -	****	8. Subtotal	\$294,250
								v,=00

Hamilton Community Park

Conceptual Plan

Novato, California

Carducci & Associates, Inc. 1331 Columbus Avenue, 2nd Floor San Francisco, CA 94133 7/21/99

	Quantity	Unit	Cost	Total	Item Subto
9. Site Furnishings	1	ls	\$10,000	\$10,000	•
10. Maintenance (90 Days)	40,000	n.f	40 03	£4.200	
10. Maintenance (90 Days)	D. Subtotal	sf	\$0.03	\$1,200 \$1,285,650	
	5. 525. 6.			ψ1,200,000	
Subtotal A-D				\$12,176,425	
Layout, Mobilization & Bonds (5	%)			\$608,821	
Design & Engineering (10%)				\$1,217,643	
City Project Development & Adn	ninistration (15%)			\$1,826,464	
Design Contingency (10%)		_		\$1,217,643	
Environmental Review (CEQA/N	EPA Studies) See list be	elow		\$800,000	
TOTAL				\$17,846,995	
E. Escalation					
A-D Cost Escalation Year 1 (5%)				\$608,821	
A-D Cost Escalation Year 2 (5%)				\$608,821	
A-D Cost Escalation Year 3 (5%)				\$608,821	
A-D Cost Escalation Year 4 (5%)				\$608,821	
A-D Cost Escalation Year 5 (5%)				\$608,821	
A-D Cost Escalation Year 6 (5%)				\$608,821	
A-D Cost Escalation Year 7 (5%)				\$608,821	
ESCALATION TOTAL				\$4,261,749	
TOTAL + ESCALATION (7 years)) TOTAL			\$22,108,744	
Cost per acre = \$17,850,000/81 a	icres = \$220,000 per aci	re			
F. Environmental Review (CEQA/NEPA Stu-	dies)				
1. Initial Study	1	ls	\$20,000	\$20,000	
2. Hydrology Study	1	ls	\$25,000	\$25,000	
Biological Study Wetland Delineation	1	ls le	\$20,000	\$20,000	
5. Traffic Study	1	ls Is	\$10,000	\$10,000	
6. Noise Study	, 1	is Is	\$20,000 \$10,000	\$20,000 \$10,000	
7. Archaeological Study	1	ls	\$5,000 \$5,000	\$5,000	
8. Resource Management Plan	1	ls	\$50,000	\$50,000	
Environmental Impact Report	1	ls	\$150,000	\$150,000	
10. Creek Restoration Plan	1	ls.	\$20,000	\$20,000	
11. Wetland Mitigation Plan	1	is	\$40,000	\$40,000	
12. Geotechnical Report	1	ls	\$40,000	\$40,000	
13. CEQA/NEPA Contingency	1	ls	\$350,000	\$350,000	
14. Feasibility Study	1	ls	\$40,000	\$40,000	
	E. Subtotal			\$800,000	
ADD ALTERNATIVE				í	
. ADD ALTERNATIVES					
ADD ALTERNATIVES 1. Golf Driving Range		ac	\$2,500	\$37,500	
	15	ac			
Golf Driving Range	15 2,700		\$50	\$135,000	
Golf Driving Range a. Fine Grading b. Perimeter fence c. Perimeter poles	2,700 60	ea	\$50 \$5,000	\$135,000 \$300,000	
Golf Driving Range a. Fine Grading b. Perimeter fence c. Perimeter poles d. Planting & Irrigation	2,700 60 550,000	ea ea sf	\$5,000 \$1	\$300,000 \$550,000	
Golf Driving Range a. Fine Grading b. Perimeter fence c. Perimeter poles d. Planting & Irrigation e. Building	2,700 60	ea ea	\$5,000	\$300,000	
Golf Driving Range a. Fine Grading b. Perimeter fence c. Perimeter poles d. Planting & Irrigation	2,700 60 550,000	ea ea sf	\$5,000 \$1	\$300,000 \$550,000	

Hamilton Community Park Conceptual Plan

Novato, California

Carducci & Associates, Inc. 1331 Columbus Avenue, 2nd Floor

San Francisco, CA 9413?

7/21/9

Item	Quantity	Unit	Cost	Total		Item Subtotal
iii. Path lighting	5	ea	\$2,000	\$10,000		
g. Tees	25	ea	\$2,000	\$50,000		
h. Equipment	1	ea	\$50,000	\$50,000		
i. Miscellaneous	1	ea	\$100,000	\$100,000		
j. Storage Building	1,500	sf	\$50	\$75,000		
				,	1. Subtotal	\$2,227,500
2. Carousel						
a. Fine Grading	2	ac	\$2,500	\$5,000		
b. 40' diameter carousel	1	ea	\$300,000	\$300,000		
c. Concrete pad & paving	10,000	sf	\$6	\$60,000		
d. Perimeter fencing	500	lf	\$30	\$15,000		
e. Building	1	ea	\$200,000	\$200,000		
f. Electrical & Lighting			V,000	Ψ200,000		
i. Secondary service	1	ls	\$10,000	\$10,000		
ii. Path lighting	10	ea	\$2,000	\$20,000		
g. Miscellaneous	1	ea	\$50,000	\$50,000		
	•		4 -2,000	400,000	2. Subtotal	\$660,000
3. 3-Hole Golf Center						
a. Per hole cost	3	ea	\$100,000	\$300,000		
b. Building/ restroom	1,000	sf	\$200	\$200,000		
c. Miscellaneous	1	ea	\$50,000	\$50,000		
	,	 -	455,000	Ψ00,000	3. Subtotai	\$550,000
					v. Cubiciai	4220,000