

January 16, 1991
TH:SO:jwr 12:30W.2

CYNTHIA SULLIVAN
Introduced by: LOIS NORTH

Proposed No.: 91-128

ORDINANCE NO. **9847**

AN ORDINANCE finding that revisions to the Zoo Capital Improvement Program Plan and the Financial and Development Plan as approved by the Zoo Development Oversight Committee and submitted to King County by the City of Seattle pursuant to conditions stipulated in the Zoo Cooperative Agreement between King County and the City of Seattle are necessary and appropriate to substantially complete the Zoo development program as approved in King County Ordinance 7344.

PREAMBLE:

In 1985, the voters approved a Zoo Bond Levy in an amount not to exceed \$31,500,000 for the purpose of making improvements to the Woodland Park Zoo. Transfer of bond proceeds to the City of Seattle, and use of bond proceeds by the City are governed under a Zoo Cooperative Agreement Between King County and the City of Seattle as approved in King County Ordinance No. 7616. In 1986, the County Council approved ordinance 7739 which appropriated \$11,230,400 of bond proceeds for transfer to the City's Zoo Construction Fund. The City has requested that remaining funds currently held in the Zoo Development Fund be transferred in order to continue work on the Zoo project. Since approval of the original Zoo Capital Improvement Program Plan and the Financial and Development Plan by the Council, the City has found it necessary to make changes and modifications of the Zoo Project. Pursuant to Section 8 of the Interlocal Agreement, the City has submitted its proposed Zoo Capital Improvement Program Plan revisions to King County for approval.

BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:

SECTION 1. The King County council finds that the revised Zoo Capital Improvement Program Plan and the Financial and Development Plan attached as Exhibits A and B are necessary and appropriate to substantially complete the Zoo Development Plan as approved in King County Ordinance No. 7344.

SECTION 2. The King County Council approves the attached Zoo Project and Financial Plans as attached.

INTRODUCED AND READ for the first time this 4th day of

February, 1991

PASSED this 4th day of March, 1991.

KING COUNTY COUNCIL
KING COUNTY, WASHINGTON

Lois North
Chair

ATTEST:

Guadalupe Lopez
Clerk of the Council

APPROVED this 15th day of March, 1991.

Jim Hill

98472

**Exhibit A
Zoo Capital Improvement Program Plan**

ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

November 27, 1990 Page 1

BOND LANGUAGE

1. TROPICAL ASIA

Stage I--A zone characterized by a wide variety of trees in a lush, wet setting and a very high density of animals supported by a complex variety of vegetation and food resources. This zone will include extensive holding, landscaping and visitor education facilities. Major elements of the Asian Tropical Forest include: "Save Our Elephants" area with free-roaming elephant forest, elephant barn, paddock, and outdoor elephant bathing pool; marsh pond with Asian waterfowl, elephant demonstration area and Thai logging camp; elephant forest overlook; Thai forest stream and waterfall; muntjac deer, sun bear, and tree python exhibits; Thai village and garden.

Stage II--This stage will feature three or four primate islands and approximately 1/4 acre tiger compound with holding area.

1991 C.I.P. (proposed)

#803 ZOO ASIAN ELEPHANT EXHIBIT

DESCRIPTION: This project replaced the old elephant house with a major new exhibit southeast of the feline house. Private donations via the "Save Our Elephants" campaign and the Woodland Park Zoological Society contributed approximately \$2.7 million to the project. Although the new exhibit was opened to the public in 1989, construction on some components will continue through 1991. The budget has been increased to provide for bird holding at the new marsh area, modifications to the elephant pool filtration system, and other exhibit adjustments.

#807 ZOO ASIAN TROPICAL FOREST

DESCRIPTION: This project will include completion of the Asian tropical zone started with the new Asian elephant exhibit. It will be immediately north of the new elephant exhibit and provide a naturalistic habitat for such animals as tigers, muntjacs, tree pythons, sun bear, siamangs, orangutans, and macaques. The project will also construct related support and visitor facilities. The budget shown below includes in-kind donations from the Woodland Park Zoological Society to assist with the exhibit landscaping and related aspects of the project. In 1990, Zoo Bond Oversight Committee recommended the budget increase of \$3.85 million for this exhibit in order to provide for all requirements of the zoo bond program at a cost and quality level comparable to that of project \$72808.

STATUS

#803 ZOO ASIAN ELEPHANT EXHIBIT

ACTIVITIES: Completed: Construction of Phases I, II, III, IV and V. A number of visitor safety and viewing enhancement improvements were completed in the spring of 1990. Design of marsh bird holding and pool filtration modification.
To be completed: Construction of marsh bird holding, elephant barn door and pool filtration modifications. A transfer of funds from King County to the City is required

Environmental review completed.

#807 ASIAN TROPICAL FOREST

ACTIVITIES: Completed: 95% Construction Documents To be completed: Permits, bidding, and construction for which a transfer of funds from King County to the City is required.

Environmental review completed.

PROPOSED ACTION

The combined project known as Tropical Asia is currently budgeted at \$9,160,000. This is the most complex and expensive project in the program. It includes some of the most difficult animals in the zoo to provide for (including elephants, orangutans, and tigers). The original budgets for this project are not adequate to meet the stringent requirements of these animals, especially the orangutan. \$4,050,000 in additional funds are being recommended for this project. \$200,000 would be used to provide bird holding at the new marsh area and to complete adjustments to the Asian elephant exhibit. The remaining funds would allow for the completion of the zone.

BUDGET (All numbers in this report have been rounded to the nearest thousand.)

| | | |
|---------------------------------------|-----|-------------|
| Original Allocation: | 803 | \$6,034,000 |
| | 807 | 2,414,000 |
| Current Allocation: | 803 | 6,103,000 |
| (1990 C.I.P.) | 807 | 3,057,000 |
| Proposed Allocation: | 803 | 6,303,000 |
| | 807 | 6,907,000 |
| Planting In-Kind: | 803 | 184,000 |
| (Included in the proposed allocation) | | |

SCHEDULE

| | | |
|----------|-----|-----------|
| Original | 803 | 1985-1987 |
| | 807 | 1988-1989 |
| Revised | 803 | 1985-1989 |
| | 807 | 1988-1993 |

2786
9847

| <u>Key Elements:</u> | <u>Completed</u> | <u>Current Program</u> | <u>Deleted</u> | <u>Notes</u> |
|----------------------|------------------|------------------------|----------------|--------------|
| Holding | X | | | |
| Landscaping | X | | | |
| Elephant forest | X | | | |
| Barn | X | | | |
| Paddock | X | | | |
| Bathing pool | X | | | |
| Demonstration Area | X | | | |
| Marsh pond and birds | X | | | |
| Forest Overlook | X | | | |
| Waterfall | X | | | |
| Muntjac Deer | | X | | |
| Sun bear | | X | | |
| Tree python | | X | | |
| Thai village | X | | | |
| Garden | X | | | |
| Orangutan | | X | | |
| Tiger | | X | | |
| Siamang | | X | | |
| Macaques | | X | | |

2786

BOND LANGUAGE

2. ZOO AFRICAN AND SOUTH AMERICAN TROPICAL FOREST EXHIBITS

The following exhibits are envisioned: African Tropical Forest: A major portion of the gorilla exhibit has been developed; future expansion is planned. Additional primate islands for colobus monkeys, lemurs, and DeBrazza monkeys are proposed. South American Tropical Forest: A large conservatory for South American bird species, as well as exhibits of squirrel monkeys, lemurs, and tapirs are envisioned.

1991 C.I.P. (proposed)

#808 ZOO AFRICAN AND SOUTH AMERICAN TROPICAL FOREST DESCRIPTION: The African and South American tropical forest zone will include an expanded gorilla exhibit, new exhibit space for animals such as the ring-tailed lemur and deBrazza monkeys. The project will build a new tropical forest building to replace the old, deteriorated aviary. The tropical forest building will primarily house birds, but will also have some mammals, reptiles, and insects. This zone will situate near of the zoo's west entry. In 1990, the Zoo Bond Oversight Committee approved the budget increase of \$2.2 million in order to restore elements within the original program. The increase will allow for design and construction of the colobus, tapir, and woolly or other new world monkey components in this zone.

STATUS

#808 ZOO TROPICAL RAIN FOREST
 ACTIVITIES: Completed: Asbestos abatement contract, selection of exhibitry artist, and award of base construction contract.
 To be completed: General construction is underway, with completion of this portion of the work in the fall of 1991. Exhibitry and landscaping will be completed in mid-1992. A transfer of funds from King County to the City is required.
 Environmental review completed

PROPOSED ACTION

Early in the design it became apparent that some desirable elements (i.e., colobus monkey, tapir) could not be incorporated within the budget. A project that was believed to be within the budget was developed and advertised for bid in the spring of 1990. The bids received were approximately \$1 million in excess of the construction budget. Due to technical errors the bids on the first advertisement were disqualified and the project was readvertised. Bids at the second opening were approximately \$100,000 higher than the first bids. After careful analysis of the bids and review with the Bond Oversight Committee a construction contract was awarded to Strand Construction Inc. In order to make this award a number of areas of the project had to be scaled back, including artificial exhibitry and landscaping, both elements critical to the quality of the finished product. In addition, the expansion of the gorilla exhibit and improvements to the lemur exhibit, which had been additive bid items, could not be awarded. It is therefore proposed that the budget for this project be increased by \$2,200,000.

BUDGET

| | |
|----------------------------------|-------------|
| Original Allocation | \$6,759,000 |
| Current Allocation (1990 C.I.P.) | 6,681,000 |
| Proposed Allocation | 8,881,000 |

SCHEDULE

| | |
|----------|-----------|
| Original | 1987-1989 |
| Revised | 1987-1992 |

Key Elements:

| | <u>Completed</u> | <u>Current Program</u> | <u>Deleted</u> | <u>Notes</u> |
|-----------------------|------------------|------------------------|----------------|---|
| Gorilla | | X | | |
| Colobus | | X | | |
| Lemurs | | X | | |
| DeBrazza | | X | | |
| Large conservatory | | X | | |
| Tapirs | | X | | |
| Pygmy marmoset | | X | | |
| Squirrel monkey | | | X | Difficulties in holding these animals in an open exhibit has led to the decision not to display them. |
| Conservatory Elements | | | | |
| Small mammals | | X | | |
| Reptiles | | X | | |
| Insects | | X | | |

2486

BOND LANGUAGE

3. NORTHERN TRAIL

Taiga Zone--A high-latitude zone characterized by extensive and dense stands of conifers. Animals in this zone are characterized by heavy insulation, hibernation and food storage. Because of glacial scouring, ponds and lakes are numerous in this zone.

This zone as proposed would feature a simulated river with waterfalls, rapids, bars and ponds that would service and enhance habitats for animals including wolves, Kodiak bears, river otters, and snowy owls.

Montane Zone--A generally high altitude zone characterized by rugged rocky areas as well as more gentle slopes with accumulated loose stones or rock debris. Plant and animals of this zone have adapted to extreme temperature variations and rugged terrain. This zone would feature expansion of snow leopard habitat and new exhibits for lesser pandas, mountain goats, marmots, and bharal sheep.

1991 C.I.P. (proposed)

#814 TAIGA AND MONTANE ZONES ("NORTHERN TRAIL")
 DESCRIPTION: The "Northern Trail" is the new name adopted for this project for interpretive and operational purposes. The tundra zone will incorporate the Northern Trail by adding a tundra interpretive center. The taiga zone will incorporate about three acres of extensive and dense stands of conifers with animals characterized by heavy insulation, hibernation, and food storage. The zone will also feature ponds, a river with waterfall and rapids, and related environmental conditions for wolves, Kodiak bears, river otters, and bald eagles. The Alaska exhibit will be part of the taiga zone, which will situate in the central part of the northern edge of the zoo grounds. Snowy owls will be included in an adjacent part of the Alaska exhibit.

The montane zone will be located southeast of the taiga and north of the Asian tropical forest, will feature rugged rocky areas as well as more gentle slopes with accumulated loose stones and rock debris. The montane habitat will exhibit animals and plants that have adapted to extremes of temperature and rugged terrain. The animals include snow leopards, lesser pandas, mountain goats, marmots, and bharal sheep. In 1990, the Zoo Bond Oversight Committee recommended the budget increase of \$2 million to provide for extensive utility work, animal care, and holding facilities. This project also requires extensive and costly construction work due to the difficult terrain existing on the site. The exhibits for snow leopards receive improvements and the bharal sheep will use the existing mountain goat area.

STATUS

#814 NORTHERN TRAIL
 ACTIVITIES: Completed: Conceptual Design Phase
 To be completed: Schematic Design Phase
 Environmental review--DNSI to be filed.

PROPOSED ACTION

The project will require additional funding due to the need for extensive utility work, extensive animal care and holding requirements, the difficulty of the terrain, and the high cost of public construction projects. The addition of \$2 million to the budget will provide for completion of the taiga and tundra elements of this project and limited improvements for the montane. The required animals identified in the bond resolution will be accommodated by the project with snow leopards, mountain goats, and sheep receiving improvements to existing exhibits.

BUDGET

| | | |
|-------------------------------------|-----------|--------------------|
| Original Allocation | Taiga | \$3,000,000 |
| | Montane | 2,937,000 |
| | | <u>\$5,937,000</u> |
| Current Allocation (1990 C.I.P.) | 5,677,000 | |
| Proposed Allocation | 7,677,000 | |

SCHEDULE

| | |
|----------|-----------|
| Original | 1990-1992 |
| Revised | 1988-1994 |

Key Elements:

| | <u>Completed</u> | <u>Current Program</u> | <u>Deleted</u> | <u>Notes</u> |
|------------------------|------------------|------------------------|----------------|--------------|
| River/rapids | | X | | |
| Wolves | | X | | |
| Kodiak bears | | X | | |
| River otters | | X | | |
| Snowy owls | | X | | |
| Snow leopard | | X | | |
| Lesser pandas | | X | | |
| Mountain goats | | X | | |
| Marmots | | X | | |
| Bharal sheep | | X | | |
| Eagle (Taiga Campaign) | | X | | |

2786

ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

4. SAVANNA ZONE

A mid-latitude zone characterized by open grassland with scattered trees. Animal life ranges from larger ungulates, carnivores and birds to a wide variety of smaller burrowing mammals.

This zone would feature the addition of a rhinoceros exhibit to complete the African Savanna. An Australian Savanna exhibit would include walleroos, emus, and black swans.

1991 C.I.P. (proposed)

#816 ZOO SAVANNA ZONE

DESCRIPTION: The project will enhance the existing savanna area to provide an environment of open grassland with scattered trees. Animal life there ranges from larger ungulates, carnivores, and birds to a wide variety of smaller burrowing animals. This zone includes African and Australasian exhibit areas. In 1990, the Zoo Bond Oversight Committee recommended deletion of rhinoceros from the African Savanna due to the requirements for adequate facilities for this endangered species which could not be met with available space and funding. The cost saving is \$1.5 million.

STATUS

#816 ZOO SAVANNA ZONE

ACTIVITIES: To be completed: preliminary information gathering; planning and consultant selection.

Environmental review --DNSI to be filed.

PROPOSED ACTION

Based on the recent international attention concerning the endangered status of the rhinoceros and its extensive holding and exhibit requirements, and following review with the Bond Oversight Committee, it is recommended that this portion of the program be deleted from the African Savanna and, in turn, that the budget be reduced by \$1,500,000.

The remaining \$787,000 will be allocated to improve animal exhibits and visitor circulation in the African Savanna and Australasia exhibit areas.

| <u>BUDGET</u> | | <u>SCHEDULE</u> | | <u>Key Elements:</u> | <u>Completed</u> | <u>Current Program</u> | <u>Deleted</u> | <u>Notes</u> |
|----------------------------------|-------------|-----------------|-----------|----------------------|------------------|------------------------|----------------|---|
| Original Allocation | \$2,414,000 | Original | 1990-1993 | Africa: | | | | Based on the recent international attention concerning the endangered status of the rhinoceros and its extensive holding and exhibit requirements, it is not appropriate to proceed with this element of the project. |
| Current Allocation (1990 C.I.P.) | 2,287,000 | Revised | 1990-1993 | Rhinoceros | | | X | |
| Proposed Allocation | 787,000 | | | | | | | |
| | | | | Australasia: | | | | (1) The public expects Woodland Park Zoo to make exhibiting decisions based on the welfare of the animals. |
| | | | | Walleroos | | X | | (2) The funds reallocated to other sub-projects will ensure that educational opportunities for the public and animal welfare are enhanced. |
| | | | | Emus | | X | | (3) There will be no effect on comfort or accessibility. |
| | | | | Black swans | | X | | (4) The size of exhibit and the holding facilities that could be built would not provide appropriate conditions for the rhinoceros |
| | | | | | | | | (5) The overall effect will be to reduce operating and maintenance costs. |
| | | | | | | | | (6) Less disruption of existing exhibits and animals will result. |
| | | | | | | | | (7) While the rhinoceros would be a popular animal, not having it is not expected to affect the zoo's revenues. |

9847
2586

ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

5. STEPPE ZONE

The Steppe Zone, which is widespread on the interiors of continents, is characterized by the low stature of its plant species which varies, depending on rainfall, from more open terrain with shorter grass. Colder grasslands will support populations of large hoofed animals which move over the landscape in regular migrations. A variety of carnivores, burrowing herbivores, bison, antelope and prairie dogs are planned for the North American Steppe, which the South American Steppe with contain llamas, maned wolves and rheas.

1991 C.I.P. (proposed)

#817 ZOO STEPPE ZONE

DESCRIPTION: This project will provide new habitat and environment for llama, antelope, maned wolf, cavius, prairie dogs, rheas and various other birds. The zone is characterized by low plants and grasses; colder grasslands support large, hoofed animals that move over the landscape in large migrations. The North American and South American steppes will be differentiated by their animal and plant collections.

In 1990 the Zoo Bond Oversight Committee recommended the \$1.9 million reduction to provide a moderate exhibit for llamas, antelopes, maned wolves, prairie dogs, and rheas. Based on the limited land available at the zoo and the fact that a large herd of bison is maintained at Northwest Trek already, the bison has been deleted from the program.

STATUS

#817 ZOO STEPPE ZONE

ACTIVITIES: None to date.

Environmental review--DNSI to be filed.

PROPOSED ACTION

It is proposed to reduce the project both in size and scope to provide a moderate exhibit for priority animal species only. Consideration will be given to using a portion of the area formerly identified for the steppe exhibit (currently occupied by the pony ride and associated facilities) for pony ride and associated facilities. Improvements to the pony facilities will be funded as part of project #809. As a result of the scope reductions, the project budget would be reduced by \$1,900,000.

BUDGET

| | |
|----------------------------------|-------------|
| Original Allocation | \$3,427,000 |
| Current Allocation (1990 C.I.P.) | 3,248,000 |
| Proposed Allocation | 1,348,000 |

SCHEDULE

| | |
|----------|-----------|
| Original | 1991-1993 |
| Revised | 1994-1997 |

Key Elements:

- Grasslands
- Prairie dogs
- Bison

- Antelope
- Llamas
- Maned wolves
- Rheas

Completed

X

Current Program

X

Deleted

X

Notes

These large animals need big, open spaces to be properly exhibited. Based on available land in the zoo, they are not considered a priority.

9847
2486

ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

6. DESERT ZONE

This zone receives low but variable rainfall and is characterized by scattered, well-spaced shrubs, succulents and quick growing and flowering annuals which sprout immediately after infrequent heavy rains. Many of the animals have evolved physiological and/or behavioral adaptations to a minimal water supply. This exhibit may feature an expansion of the tropical nocturnal house for desert species.

TROPICAL AND NOCTURNAL HOUSE IMPROVEMENTS

Various exhibit modifications and other work on complex mechanical and building system to update the facility. Work will include structural changes needed to house more bird species to increase the number of mixed exhibits.

1991 C.I.P. (proposed)

#824 ZOO DESERT ZONE AND TROPICAL/NOCTURNAL IMPROVEMENTS

DESCRIPTION: This zone receives low but variable rainfall has characteristics of scattered, well-spaced shrubs, succulents, and quick-growing flowering annuals that sprout immediately after the infrequent heavy rains. The animals of this environment have evolved physiological and behavioral adaptations to the low water supply. This project will also modify and upgrade existing buildings to accommodate current and future needs as they eventually become part of the desert and the African/South American tropical forest zones. Owing the Seattle climate, the desert zone is envisioned as an interior exhibit pavilion of approximately 7,500 square feet.

STATUS

#824 ZOO DESERT ZONE AND TROPICAL/NOCTURNAL IMPROVEMENTS ACTIVITIES: None to date. Planning and design will begin in 1991 and a transfer of funds from King County to the City is required.

Environmental review--DNSI to be filed.

PROPOSED ACTION

Based on our climate, the desert zone is envisioned as a interior exhibit pavilion approximately 7500 square feet. There are no budget adjustments proposed.

BUDGET

| | | |
|-------------------------------------|----------|--------------------|
| Original Allocation | Desert | \$2,414,000 |
| | Trop/Noc | 300,000 |
| | | <u>\$2,714,000</u> |
| Current Allocation (1990 C.I.P.) | | 2,572,000 |
| Proposed Allocation | | 2,572,000 |

SCHEDULE

| | |
|----------|-----------|
| Original | 1993-1994 |
| Revised | 1991-1994 |

Key Elements:

More birds
Mixed exhibits
Desert plantings

Completed

Current Program

Deleted

Notes

X
X
X

2486
9847

ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

BOND LANGUAGE

7. TEMPERATE DECIDUOUS FOREST ZONE

This zone is characterized by multi-leveled forests with trees, shrubs, herbs and a diverse collection of animals, including large carnivores, ungulates, small rodents, and birds. A major portion of this zone has been completed with the swamp and marsh exhibit. New portions may include white-tailed deer, song birds, and turtles.

8. TEMPERATE RAIN FOREST ZONE

The North American Temperate Rain Forest located along the Pacific Coast contains the tallest forest in the world. Conifers dominate an understory of shrubs and ferns. This zone represents King County's "native habitat." A miniature forest is proposed to create a habitat for elk, cougar and other species which once flourished in King County.

1991 C.I.P. (proposed)

#825 ZOO TEMPERATE DECIDUOUS AND RAIN FOREST DESCRIPTION: This exhibit zone will feature mixed species of bird life and the replication of their environments. The deciduous forest has characteristics of multi-layered elements with trees, shrubs, herbs and a diverse collection of animals, which may include large carnivores, ungulates, and small rodents and birds. Part of this zone is the already completed swamp and marsh exhibit, and new parts may include white-tailed deer, song birds, and turtles. The temperate rain forest represents the North American coast forests inhabited by species native to our Puget Sound region. Cougars will remain in their current exhibit. Elk and bald eagles are being moved from this zone and added to the Taiga and Montane zones (P72814).

STATUS

#825 ZOO TEMPERATE DECIDUOUS AND RAIN FOREST ACTIVITIES: None to date.
Environmental review--DNSI to be filed.

PROPOSED ACTION

No changes in scope or budget are proposed.
One year is added to the development schedule to reflect:
(1) Contracting requirements
(2) New two stage zoo design process
(3) Permit processing
(4) Complex construction sequencing
(5) Project close-out.

| <u>BUDGET</u> | | <u>SCHEDULE</u> | | <u>Key Elements:</u> | <u>Completed</u> | <u>Current Program</u> | <u>Deleted</u> | <u>Notes</u> |
|----------------------------------|-------------|-----------------|-----------|----------------------|------------------|------------------------|----------------|---|
| Original Allocation | \$1,469,000 | Original | 1993-1995 | Ungulates | | X | | |
| Current Allocation (1990 C.I.P.) | 1,392,000 | Revised | 1993-1996 | Birds | | X | | |
| Proposed Allocation | 1,392,000 | | | Turtles | | X | | |
| | | | | Cougar | | X | | |
| | | | | Elk | | | X | Will remain in current exhibit. Included as part of the Northern Trail. |

2486

BOND LANGUAGE

9. SPECIAL PURPOSE EXHIBITS

(A) FAMILY FARM

Described generally as various minor improvements, potentially to include: new facility for domestic swine and improvements to the animal contact area. Expand the farm theme to the west of the exhibit area. Make the pond areas less formal. Remodel the Northwest Aviary. Possibly change the use of the nursery and bird-rearing area to be farm-related animals.

Other options include: incorporate draft horses into Family Farm as working components, revise landscape design to demonstrate farm orchard.

(B) TROPICAL/NOCTURNAL HOUSE
(SEE DESERT ZONE)

(C) HORSE AND PONY FACILITIES

(Ponies and horses are combined)
New stables, yards, and other needed improvements.

(D) OTHER SPECIAL EXHIBITS

As described by zoo staff, other special exhibits include, at present, birds of prey and the Backyard Ecology area. Other temporary and/or permanent special exhibits are anticipated although none has been identified or costed out at this time. Possibilities include exhibit areas for animals on short-term loan or international exchange, such as koalas, giant pandas, or golden monkeys. Other exhibits could include an insect zoo; special educational exhibits to illustrate a particular interpretive theme; rotating different species according to need. Examples: convergent evolution; special adaptations such as protective coloration, and mimicry.

1991 C.I.P. (proposed)

#809 ZOO FAMILY FARM, HORSE AND PONY, AND SPECIAL EXHIBIT IMPROVEMENTS
DESCRIPTION: The zoo will revise the scope of the family farm and special exhibits project to emphasize a discovery concept oriented toward children's activities, improvements to the animal contact areas, and the redevelopment of the "Foreign Friends Village" to provide interest and excitement for children. Pony facilities will remain generally in their current area but the yard and stable will be improved. In 1990, the Zoo Bond Oversight Committee approved a budget increase of \$500,000 to develop the discovery theme more fully. The zoo deleted the draft horses from the project because the old wagon ride program was eliminated for safety and operational reasons.

#827 ZOO OTHER SPECIAL EXHIBITS II
DESCRIPTION: This project category will provide for additional exhibits not provided for within the established bioclimatic zones, such as special programs to educate or illustrate particular zoological topics and issues.

STATUS

#809 ZOO FAMILY FARM, HORSE AND PONY, AND SPECIAL EXHIBIT IMPROVEMENTS ACTIVITIES: Completed: Design Program and designer selection. To be completed: Design and construction schedule to begin in the Fall 1991. A transfer of funds from King County to the City is required.

Environmental review--DNSI to be filed.

#827 ZOO OTHER SPECIAL EXHIBITS II
ACTIVITIES: None to date.

Environmental review--DNSI to be filed.

PROPOSED ACTION

It is proposed to revise the scope to emphasize a discovery concept directed toward children's activities, improvements to animal contact areas, and the redevelopment of the "Foreign Friends Village" into an activity center providing interest and excitement for children. This will require an addition to the budget of \$500,000. As noted in the Steppe Zone, facilities for ponies will remain in the general area that they currently occupy. All requirements of the bond resolution will be met with the exception of draft horses which are not currently kept as a zoo animal and may not be compatible with future plans.

No changes to scope or budget are proposed. All requirements of the bond resolution will be met.

9847

| <u>BUDGET</u> | | |
|----------------------------------|----------------------|--------------------|
| Original Allocation | | |
| Family Farm | 809 | \$ 250,000 |
| Horse & Pony | 818 | 250,000 |
| Special Exhibits | 819 | 250,000 |
| Special Exhibits | 827 | 450,000 |
| | | <u>\$1,200,000</u> |
| Current Allocation (1990 C.I.P.) | 809 | \$ 712,000 |
| | (includes 818 & 819) | |
| | 827 | 426,000 |
| | | <u>\$1,138,000</u> |
| Proposed Allocation | 809 | \$1,212,000 |
| | 827 | 426,000 |
| | | <u>\$1,638,000</u> |

| <u>SCHEDULE</u> | | |
|-----------------|----------------------|-----------|
| Original | Family Farm 809 | 1987 |
| | Horse & Pony 818 | 1990-1991 |
| | Special Exhibits 819 | 1990-1991 |
| | Special Exhibits 827 | 1993-1994 |
| Revised | Family Farm 809 | 1987-1993 |
| | (includes 818 & 819) | |
| | Special Exhibits 827 | 1994-1996 |

| <u>Key Elements:</u> | <u>Completed</u> | <u>Current Program</u> | <u>Deleted</u> | <u>Notes</u> |
|----------------------|------------------|------------------------|----------------|---|
| 809: | | | | |
| Pond modifications | | X | | |
| Landscape revisions | | X | | |
| Domestic swine | | X | | |
| Contact area | | X | | |
| NW aviary rehab. | | X | | |
| 818 | | | | |
| Pony yard/stable | | X | | |
| Draft horses | | | X | The wagon ride program, which required draft horses, was eliminated for operational and safety reasons. |
| 819 and 827 | | | | |
| Short-term loans | | X | | |
| Insects | | X | | |
| Education/discovery | | X | | |

29847

BOND LANGUAGE

1991 C.I.P. (proposed)

ZOO BOND PROJECT DESCRIPTIONS AND PROPOSED ACTIONS

STATUS

PROPOSED ACTION

10. ANIMAL CARE AND ZOO SUPPORT FACILITIES

(A) KEEPER FACILITIES

Provide adequate crew quarters, including offices, rest rooms, lockers, showers, and lunch room facilities. Animal curators relocated to administrative offices.

(B) MAINTENANCE & HORTICULTURAL FACILITIES

Provide increased storage space for maintenance and gardening supplies, small shop areas for carpentry, painting and other crafts. Also provide an on-site plant holding area for donated plants, and structure for storing toxic substances.

(C) ADMINISTRATIVE OFFICES

Commission recommends that administrative offices be moved to the ARC building following relocation of the education staff to the Poncho Theater. Provide centralized office space for zoo director, business manager, operations manager, two secretaries, accounting staff and animal curators. (SEE PROJECT #813)

(D) HOLDING & BREEDING FACILITIES

Adequate off-exhibit areas are needed to hold animals involved in breeding programs, undergoing rehabilitation or are surplus to the zoo's animal collection.

ON SITE: Provide additional cages and other facilities at the conservation area in the commissary complex and at other locations. (See Project #810)

OFF SITE: Purchase 25 to 40 acres of farmland within one hour's drive of the zoo; construct improvements to create an off-site holding and breeding facility.

(E) VETERINARY FACILITIES

Renovate/reconstruct aged and inadequate animal health facilities.

Complete repairs and construction of a major expansion and modernization of veterinary facilities to provide approximately 2000 square feet of modern surgical space. Also renovate animal hospital areas to provide additional office, laboratory, and support space. (See Project #810)

#810 ZOO KEEPER, MAINTENANCE, VETERINARY, AND RELATED IMPROVEMENTS

DESCRIPTION: The project will construct offices, restrooms, lockers, showers, and a lunchroom for zoo staff, and build workshop space, storage, horticulture space, and related service areas. The project will also provide facilities and improvements to safely store the toxic chemicals used for pest control, painting, horticulture, and other purposes at the zoo. The project will replace the existing veterinary complex to provide surgical space, hospital, office, laboratory, and related support areas. It will also provide new holding cages for sick and quarantined animals and animals kept off exhibit. These off-exhibit facilities will support special breeding programs, house animals that are not needed for current exhibits, and permit temporary holding during periods of habitat/exhibit renovation and transfer/shipping activities. This will involve redevelopment of the service complex at the southeast corner of the zoo grounds. Renovation of the existing veterinary building will follow the move of the animal health unit into its new facilities. In 1990, the Zoo Bond Oversight Committee recommended the \$1.5 million increase to provide a new animal health care facility that meets current standards and to provide the other project requirements, based on recent construction cost estimates.

#828 ZOO OFF-SITE BREEDING AND HOLDING FACILITY

DESCRIPTION: In order to provide for care of animals during special breeding, quarantine, or rehabilitation programs, and to provide for creatures temporarily surplus to exhibit needs, this project will permit the development of facilities outside the present zoo grounds. Functional, non-exhibit, or holding facilities will be constructed to protect and care for the animals on a temporary basis. The zoo began planning in 1989 and the actual schedule for acquisition and development will depend on the availability of suitable land. In 1990, the Zoo Bond Oversight Committee recommended the \$800,000 budget reduction to provide for a basic secure facility on land which is anticipated to be donated to fulfill the program intent.

#810 ZOO KEEPER, MAINTENANCE, VETERINARY, AND RELATED IMPROVEMENTS

ACTIVITIES: Completed: Review and approval of 66% construction documents for all facilities to be located in the southeast area of the zoo. Construction of southwest animal holding. Construction documents for all other elements. To be completed: Permits, bidding and construction for which a transfer of funds from King County to the City is required.

Environmental review completed.

#828 ZOO OFF-SITE BREEDING AND HOLDING FACILITY

ACTIVITIES: None to date. A transfer of funds from King County to the City is required to begin planning and design for needed improvements.

Environmental review requirements will depend on site selected.

The bond program anticipated renovating the old veterinary facilities which are located in the middle of the zoo grounds. This space is prime exhibit for the public and with very limited overall space available within the zoo, it was determined early in the program that the veterinary facilities should be relocated to the southeast corner of the zoo property, adjacent to the existing maintenance facilities. This was a sound programmatic decision, however it has had cost impacts. It is more expensive to develop this new site than it would have been to renovate the old one. The second cost impact has come from higher standards being required for zoo animal health facilities. It is proposed that \$1,500,000 be added to the budget to complete this and the other components of this section in accordance with the bond resolution requirements.

A search for an appropriate site is currently underway and several potential sites have been identified. These sites would be available to the zoo without cost for acquisition. Therefore, it is proposed that the budget be reduced by \$800,000. The remaining funds would be used to develop the site.

9847

| <u>BUDGET</u> | |
|-------------------------------------|----------------|
| Original Allocation | 810 \$ 450,000 |
| | 811 1,000,000 |
| | 821 1,400,000 |
| | 804 50,000 |
| | 812 350,000 |
| | \$3,250,000 |
| Current Allocation (1990 C.I.P.) | \$3,347,000 |
| Proposed Allocation | \$4,847,000 |

| <u>SCHEDULE</u> | | <u>Key Elements:</u> | <u>Completed</u> | <u>Current Program</u> | <u>Deleted</u> | <u>Notes</u> |
|-----------------|---------------|-------------------------|------------------|------------------------|----------------|-------------------------------------|
| Original | 810 1987-1988 | 810 | | | | |
| | 811 1988-1989 | Crew quarters | | X | | New structure |
| | 821 1990-1992 | Animal curators offices | X | | | |
| | 804 1986 | Maintenance storage | | X | | |
| | 812 1988-1989 | Carpentry shop | | X | | New structure |
| Revised | 1986-1992 | Paint shop | | X | | New structure |
| | | Greenhouse | | X | | |
| | | 811 & 821 | | | | |
| | | Modern surgical space | | X | | New facilities are being developed. |
| | | Offices | | X | | |
| | | Laboratory | | X | | |
| | | Support space | | X | | |
| | | 804 Chemical storage | | X | | |
| | | 812 On-site holding | X | | | |

| <u>BUDGET</u> | |
|-------------------------------------|-----------------|
| Original Allocation | 828 \$1,500,000 |
| Current Allocation (1990 C.I.P.) | 1,572,000 |
| Proposed Allocation | 772,000 |

| <u>SCHEDULE</u> | | <u>Key Elements:</u> | <u>Completed</u> | <u>Current Program</u> | <u>Deleted</u> | <u>Notes</u> |
|-----------------|-----------|----------------------|------------------|------------------------|----------------|--------------|
| Original | 1994-1995 | 25-40 acres for | | X | | |
| Revised | 1989-1994 | off-site holding | | | | |
| | | and breeding | | | | |

BOND LANGUAGE1991 C.I.P. (proposed)STATUSPROPOSED ACTION

11. EDUCATION FACILITIES AND VISITOR AMENITIES

(A) EDUCATION/VISITOR FACILITIES

Replacement and expansion of the Poncho Theater for an education center to replace the existing ARC: to include meeting rooms, a discovery room, and approximately 2000 square feet of offices.

#822 ZOO EDUCATION AND ADMINISTRATION FACILITIES
DESCRIPTION: The project will remodel the theater building near the zoo's south gate to replace the education facilities now located at the Activity Resources Center (ARC). The new education building will add 5,000-7,000 square feet of space and will include a lecture/film auditorium, staff offices, library, meeting and class rooms, and related storage and support spaces. This project reflects an expanded vision of the zoo's mission in the area of conservation and environmental, and zoological education. The Zoo Bond Oversight committee allocated in 1990 an additional \$468,000 to expand the scope and program of the education facilities project. The project was included in the 1987 CIP but was consolidated into project 72813 in the subsequent years. It has now been re-established as a separate project.

#822 ZOO EDUCATION AND ADMINISTRATION FACILITIES
ACTIVITIES: Completed: Administration facilities, planning for Education Center.
To be completed: Design of the Education Center. A transfer of funds from King County to the City is required.

Environmental review - DNSI to be filed.

Interim administrative offices have been provided in the area of the old elephant exhibit in lieu of remodeling the ARC. This was made necessary due to delays in the zoo gaining access to the Poncho Theater which was linked to the relocation of the education function from the ARC. No additional funds are proposed for this element. Even though the Children's Theater is still occupying the Poncho Theater, they do have plans to relocate to the Seattle Center. Therefore, it is proposed that we proceed immediately with development of the education center at the south entry. Due in part to the delay in being able to implement this project and to the fact that the Poncho Theater will only be available on a limited basis for several more years, the cost of providing adequate educational facilities is higher than originally projected. It is proposed that \$1,000,000 be added to the education component.

(B) GIFT SHOP/BOOKSTORE

Commission recommends the expansion/relocation of the bookstore to a main entrance as a first priority because of the potential for increase zoo revenue and public service. Shop should have ample display for educational and souvenir items as well as rental of wheel chairs, strollers, umbrellas, and other visitor conveniences. Zoological Society offices should also be incorporated.

#813 ZOO FOOD SERVICES GIFT AND BOOKSHOP FACILITIES
DESCRIPTION: This project will provide food service facilities for zoo patrons. The department may recommend a restaurant development program and funding strategy to pay for a new restaurant and satellite food facilities. Another alternative under consideration is renovating the existing facilities and providing minimal improvements. The gift and bookstore has already been provided in 1988/89. The budget reduction shown below reflects that fact that the education and administrative facilities previously a part of this project, are now planned as a separate project (P72822).

#813 ZOO FOOD SERVICES, GIFT, AND BOOKSHOP FACILITIES
ACTIVITIES: Completed: Planning and conceptual design for food and gift facilities.
To be completed: Decisions on the funding and operation of the various concession facilities.

Environmental review - DNSI to be filed.

No changes are proposed.

Construct a gift shop/bookstore located at or near a main gate with access from within and outside zoo grounds. Incorporate office space for Seattle Zoological Society.

(C) REST ROOM FACILITIES AND OTHER AMENITIES

Additional rest rooms are needed as well as pathways, water fountains and benches. New covered structures are also needed to shelter exhibit-viewing, picnic, and resting areas.

#829 ZOO VISITOR AMENITIES
DESCRIPTION: This project will provide drinking fountains, park furniture, rest room facilities (new and remodeled), pathways, zoo entries, special event areas, landscape improvements and picnic/rest/viewing areas. The project will be phased over several years to mesh with the sequence of new exhibits and the anticipated increase in visitors.

#829 ZOO VISITOR AMENITIES ACTIVITIES: Completed: Construction of Phase I-Widening of primary path near Savanna Aviary. Phase II-Design Contract. Schematic design of primary visitor path and the new north and south entries. To be completed: Design Development.

Environmental review - DNSI to be filed.

Because the various elements of this project are being developed over a long period of time, it is proposed that the budget be increased by \$425,000 to adjust for cost escalations.

Redevelopment of west entry mall; improvement of north meadow for special events, improvement of existing rest rooms (at water tower and family farm); provision of additional rest rooms, pathways; benches; trails, bicycle racks, drinking fountains and more.

2786

BOND LANGUAGE

(D) GRAPHICS

Satellite interpretive centers are needed at strategic locations throughout the zoo as well as a comprehensive signage and graphics program to orient and guide visitors and to explain specific exhibits.

(E) EATING FACILITIES

Commission recommends the location of several covered eating facilities on the grounds to serve zoo customers and staff. Eating facilities should be designed to accommodate families with small children. At least one should be a sit-down facility, located to be convenient to zoo patrons and to minimize disruption and be compatible with Long-Range Plans. Satellite facilities to accommodate brown baggers, (see project #813).

(F) COVERED AREAS

Provide additional covered facilities for exhibit viewing, pictures, resting during inclement weather. Included in C.

This item is not separately identified in documents other than the Zoo Commission Report

(G) PARKING FACILITIES

Present parking space is inadequate to accommodate zoo visitors, especially on peak attendance days. Commission acknowledged the potential community impact of parking lots and street parking, and recommended efforts to provide alternative transportation modes and to encourage visitor attendance during non-peak periods.

\$300 to study existing parking lot design at zoo to add to capacity without significant conversion of zoo area or park land perimeter to parking and to provide a new lot at the site of the existing elephant house.

\$400,000 to remove existing north lot (future Steppe Zone) and replace. Improvements to largely consist of modifying aisles, space width, and changes to entrance/exits and traffic flow to achieve most efficient design.

1990 C.I.P.

#806 ZOO INTERPRETATION, GRAPHICS, SITE IMPROVEMENTS

DESCRIPTION: Satellite interpretive centers will be established at strategic locations throughout the zoo. A comprehensive signage and graphics program will be designed and implemented to orient and guide visitors and to explain specific exhibits. The interpretive program will be keyed to overall bioclimatic zone themes of the zoo. This project will also provide signage and interpretive graphics for each exhibit to be developed throughout the 1986-96 period of the zoo bond issue.

#805 ZOO PARKING LOT IMPROVEMENTS

DESCRIPTION (1990 C.I.P.): This project will make improvements to the north and south parking lots, including regulatory signage and equipment, striping, reconfiguration, paving and drainage. The present 770 off-street parking spaces at the zoo cannot meet demand on peak visitor days, and there is no available land for additional parking lots. This project makes more efficient use of the existing lots. In 1990, the Zoo Bond Oversight Committee recommended the \$125,000 budget increase to compensate for inflation in construction costs and to provide storm water detention at the north parking lot.

STATUS

#806 ZOO INTERPRETATION, GRAPHICS, SITE IMPROVEMENTS
ACTIVITIES: Completed: All elements of Asian Elephant Exhibit #803, conceptual approach for Tropical Rain Forest #808 and Tropical Asia #807. To be completed: Design and fabrication of the interpretive elements for projects 807 and 808. A transfer of funds from King County to the City is required.

Environmental review not required.

#805 ZOO PARKING LOT IMPROVEMENTS

ACTIVITIES: Completed: Curb restoration at the north lot. Construction contract award for the south and north lots.
To be completed: Construction is scheduled to be completed in the Spring 1991. A transfer of funds from King County to the City is required.
Environmental review completed.

PROPOSED ACTION

No budget adjustment is being proposed. However, it is anticipated that funds for interpretation and graphics will be augmented by zoo sub-account funds on an incremental basis over the next several years.

Improvements are being made to the zoo's two primary lots (north and south). The existing inside north lot (future steppe zone) is not being removed as part of this project and instead is being used for a construction staging area and parking for interim administrative offices. The zoo's 10-year development plan reviewed the placement of additional parking spaces in the area of the old elephant exhibit and determined that the area would be better used as exhibit space in the future. Due to general cost escalation and the requirement to provide storm water detention in the north parking lot, it is proposed that the budget be augmented by \$125,000.

9847
2786

| <u>BUDGET</u> | | |
|-------------------------------------|--------------------|-------------|
| Original Allocation | 820 | \$ 50,000 |
| | 822 | 500,000 |
| | Subtotal | \$ 550,000 |
| | 813 | 900,000 |
| | 829 | 1,300,000 |
| | 806 | 1,200,000 |
| | 805 | 300,000 |
| | 823 | 400,000 |
| | Subtotal | 700,000 |
| Current Allocation (1990 C.I.P.) | 820 | \$ 70,000 |
| | 822 | 739,000 |
| | 813 | 841,000 |
| | Combined as 813 | \$1,650,000 |
| | 829 | 1,238,000 |
| | 806 | 1,501,000 |
| | 805 (includes 823) | 679,000 |
| Proposed Allocation | 820 | 70,000 |
| | 822 | 1,739,000 |
| | Combined as 822 | \$1,809,000 |
| | 813 | 841,000 |
| | 829 | 1,663,000 |
| | 806 | 1,501,000 |
| | 805 (includes 823) | 804,000 |

| <u>SCHEDULE</u> | | |
|-----------------|-----|-----------------------------|
| Original | 820 | 1990 |
| | 822 | 1990-1991 |
| | 813 | 1987-1989 |
| | 829 | 1993-1995 |
| | 806 | 1986-1987 |
| | 805 | 1986-1987 |
| | 823 | 1989-1990 |
| Revised | 822 | 1991-1994 |
| | 813 | 1987-1992 |
| | 829 | 1988-1995 |
| | 806 | 1987-1996 |
| | 805 | 1987-1991 (includes 823) |

| <u>Key Elements:</u> | <u>Completed</u> | <u>Current Program</u> | <u>Deleted</u> | <u>Notes</u> |
|-------------------------------|------------------|------------------------|----------------|--------------|
| Education facility | | X | | |
| Gift/book shop | X | | | |
| Rest rooms & other facilities | X | X | | |
| Graphics | X | X | | |
| Eating facilities | | X | | |
| Covered areas | X | X | | |
| Parking facilities | | X | | |

9847
2786

BOND LANGUAGE

12. PROJECTS NOT IDENTIFIED IN THE BOND LANGUAGE

(A) CAPITAL IMPROVEMENT PROGRAM PLAN

1991 C.I.P. (proposed)

#801 ZOO CAPITAL IMPROVEMENT PROGRAM PLAN
 DESCRIPTION: This project provides for ongoing planning for the zoo's Capital Development Program funded by the 1986 King County Zoo Bond Issue. The primary objective is to coordinate the design efforts of several independent consultants working on a variety of projects. This project is also providing for the updating of the zoo master plan and for information and support for the Zoo Bond Oversight Committee.

STATUS

#801 ZOO CAPITAL IMPROVEMENT PROGRAM PLAN
 ACTIVITIES: Completed: Printing of the 10-Year Capital Development Plan and distribution to community groups, public officials and agencies. Printing and distribution of development brochure.
 To be completed: On-going monitoring of the aesthetic nature of the individual projects to ensure continuity. Additional general planning, public information and citizen participation in zoo redevelopment activities.
 Environmental review not required.

PROPOSED ACTION

The 1990 CIP provided an additional \$25,000 for this project to cover the cost of on-going program planning and coordination. An additional \$55,000 is proposed to cover the cost of this planning for the remainder of the program.

BUDGET

Original Allocation \$0
 Current Allocation \$255,000
 (1990 C.I.P.)
 Proposed Allocation \$335,000

SCHEDULE

1986-1993

Key Elements:

10-Year Capital

Development Plan X
 Your Future Zoo X
 General planning X

Completed

Current Program

Deleted

Notes

X

2786

BOND LANGUAGE

1991 C.I.P. (proposed)

STATUS

PROPOSED ACTION

12. PROJECTS NOT IDENTIFIED IN THE BOND LANGUAGE (continued)

(B) MAJOR UTILITIES

#802 ZOO MAJOR UTILITIES

DESCRIPTION : This project will replace and/or renovate the old, fragmented, often inadequate utility systems at the zoo complex and provide new systems where needed to accommodate the 10-year zoo development program. The major site utilities include electrical power, water service, sanitary and storm sewerage disposal and/or treatment, solid waste handling, telecommunications, heating fuel supply, and related elements in the overall zoo-wide service network. Parts of the utility system have been completed and additional components will be constructed in stages through 1993. For the 1991 CIP, the Zoo Bond Oversight Committee proposed a \$1.5 million budget increase to complete the essential elements of the system.

#802 ZOO MAJOR UTILITIES

ACTIVITIES: Completed: A. Phase I (south entry area). B. Development of usage models for on-site storm water completed. C. Report and recommendations on major utilities prepared by CH2M Hill. Engineering Department modeling of off-site sewer system capacities. Horton-Dennis Associates have evaluated the water distribution system and related pump system. To be completed: Construction documents for electrical, water, gas, and communication systems. Agreement with Seattle Engineering Department on details of storm and sanitary sewer requirements to be applied to the zoo and any cooperative construction projects.

Environmental review--DNSI to be filed.

The bond program failed to recognize the need for utility systems in areas of the zoo where they were not available or inadequate to support additional facilities. The major utilities project was created at the beginning of the development program by taking a percentage of each of the capital projects so that these utilities could be addressed in a comprehensive manner providing services to each of the various bond projects. This project never has contemplated or does it have the funds necessary to provide any utilities off site. The on-site utility needs could easily amount to \$5,000,000. However, it is proposed to add \$1,500,000 to the project budget to provide only the essential connections for the various bond projects.

BUDGET

Original Allocation \$0
 Current Allocation 2,004,000
 (1990 C.I.P.)
 Proposed Allocation 3,504,000

SCHEDULE
 1987-1993

Key Elements:

| | <u>Completed</u> | <u>Current Program</u> | <u>Deleted</u> |
|---------------------------|------------------|------------------------|----------------|
| Water system improvements | X | X | |
| Electrical | | X | |
| Natural gas | X | | |
| Communications | | X | |
| Sewer | X | X | |

Notes

Primary irrigation feed line has been completed.

Portions of the north and south entry area and the old elephant site have been completed.

BOND LANGUAGE1991 C.I.P. (proposed)STATUSPROPOSED ACTION

12. PROJECTS NOT IDENTIFIED IN THE BOND LANGUAGE (continued)

(C) ONE PERCENT OF ZOO BONDS FOR ART

#830 ONE PERCENT ZPCF ART

DESCRIPTION: An apportionment estimated to be one percent of the construction expenditures of all bond proceeds (exclusive of private contributions) has been set aside in this CIP project to provide for public works of art at the zoo to be integrated with the zoo bond program. This is in accordance with the art-in-public-places program, Section 5 of Ordinance 111716 and the Seattle Municipal Code 20.32.030. Methods for selection, siting, and funding of specific works of art are subject to the review and approval of the Seattle Arts Commission, Zoo Development Oversight Committee, the zoo director, and the superintendent of Parks and Recreation. The dollar adjustments to support these artworks have been made to the other ZPCF projects, totaling approximately \$217,000. During the period of the bond program, this amount will be transferred to the Seattle Arts Commission for inclusion in the Municipal Art Plan.

#830 ONE PERCENT OF ZOO BONDS FOR ART

ACTIVITIES: Completed: Two artists have been approved by the Seattle Arts Commission. They were in residence at the zoo for 30 days for observation and preliminary design work. Review of proposals.
To be completed: Resolution of siting issues.

Environmental review not required.

There is no change in scope or budget proposed.

Note: This project does not have its own individual budget, but rather was charged as a line item proportionately to each of the appropriate bond projects.

9847

**Exhibit B
Zoo Finance and Development Plan**
(Dollars in 000's)

Revised 8/3/1990
DRAFT

27847

| | Actuals | | | | | Projected | | | | | | | TOTALS |
|---|----------|----------|----------|----------|----------|-----------|----------|----------|---------|---------|---------|-------|----------|
| | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | |
| NEEDS: | | | | | | | | | | | | | |
| First bond sale project costs: | 555.2 | 2,644.8 | 3,975.6 | 1,687.8 | 3,418.6 | 8,047.3 | 8,868.1 | 4,751.6 | 750.0 | 304.1 | 0.0 | 0.0 | 35,003.0 |
| less: Zoo Society in-kind donations | --- | --- | 100.0 | 85.0 | 65.0 | 160.0 | 146.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 556.5 |
| First bond sale draws | 555.2 | 2,644.8 | 3,875.6 | 1,602.8 | 3,353.6 | 7,887.3 | 8,721.6 | 4,751.6 | 750.0 | 304.1 | 0.0 | 0.0 | 34,446.5 |
| | | | | | | | | | | | | | |
| Second bond sale project costs: | 0.0 | 0.0 | 0.0 | 15.0 | 95.0 | 1,960.0 | 5,332.9 | 4,491.3 | 3,741.8 | 1,272.0 | 1,320.0 | 350.0 | 18,578.0 |
| less: Zoo Society in-kind donations | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 35.0 | 237.2 | 288.0 | 190.0 | 96.9 | 0.0 | 847.1 |
| Second bond sale draws | 0.0 | 0.0 | 0.0 | 15.0 | 95.0 | 1,960.0 | 5,297.9 | 4,254.1 | 3,453.8 | 1,082.0 | 1,223.1 | 350.0 | 17,730.9 |
| | | | | | | | | | | | | | |
| FUND CASH FLOWS | | | | | | | | | | | | | |
| Donations: | | | | | | | | | | | | | |
| Beginning balance, donations | 0.0 | 395.0 | 2,488.2 | 3,658.1 | 4,244.0 | 4,882.4 | 5,792.9 | 6,755.4 | 3,497.3 | 315.9 | 5.7 | 41.8 | |
| plus: cash donations, Zoo Society | 313.0 | 1,930.0 | 930.0 | 322.0 | 325.0 | 473.5 | 452.8 | 482.0 | 840.0 | 1,023.1 | 1,210.0 | 295.0 | 8,596.4 |
| donations, King County | 60.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 60.0 |
| interest earnings | 22.0 | 163.2 | 239.9 | 278.8 | 370.5 | 437.0 | 509.7 | 420.8 | 182.4 | 52.7 | 49.3 | 13.2 | 2,739.5 |
| less: first bond sale project costs | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2,067.0 | 750.0 | 304.1 | 0.0 | 0.0 | 3,121.1 |
| second bond sale project costs | 0.0 | 0.0 | 0.0 | 15.0 | 57.0 | 0.0 | 0.0 | 2,093.9 | 3,453.8 | 1,082.0 | 1,223.1 | 350.0 | 8,274.7 |
| Ending balance, donations | 395.0 | 2,488.2 | 3,658.1 | 4,244.0 | 4,882.4 | 5,792.9 | 6,755.4 | 3,497.3 | 315.9 | 5.7 | 41.8 | 0.0 | |
| | | | | | | | | | | | | | |
| Bond Funds: | | | | | | | | | | | | | |
| Beginning balance, 1st bond sale proceeds | 0.0 | 22,864.4 | 21,845.9 | 19,473.7 | 19,589.0 | 17,632.1 | 10,861.7 | 2,596.5 | (0.0) | (0.0) | (0.0) | 0.0 | |
| plus: bond sale proceeds | 22,965.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22,965.0 |
| interest earnings | 517.4 | 1,626.3 | 1,503.4 | 1,718.2 | 1,396.6 | 1,117.0 | 456.3 | 88.0 | (0.0) | (0.0) | (0.0) | 0.0 | 8,423.1 |
| less: bond sale expenses | 62.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 62.8 |
| project costs | 555.2 | 2,644.8 | 3,875.6 | 1,602.8 | 3,353.6 | 7,887.3 | 8,721.6 | 2,684.5 | (0.0) | (0.0) | (0.0) | 0.0 | 31,325.4 |
| Ending balance, 1st bond sale proceeds | 22,864.4 | 21,845.9 | 19,473.7 | 19,589.0 | 17,632.1 | 10,861.7 | 2,596.5 | (0.0) | (0.0) | 0.0 | 0.0 | 0.0 | |
| | | | | | | | | | | | | | |
| Beginning balance, 2nd bond sale proceeds | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8,508.1 | 7,076.5 | 2,089.4 | 0.0 | (0.0) | 0.0 | 0.0 | |
| plus: bond sale proceeds | 0.0 | 0.0 | 0.0 | 0.0 | 8,535.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8,535.0 |
| interest earnings | 0.0 | 0.0 | 0.0 | 0.0 | 83.5 | 528.4 | 310.8 | 70.8 | 0.0 | (0.0) | 0.0 | 0.0 | 993.5 |
| less: bond sale expenses | 0.0 | 0.0 | 0.0 | 0.0 | 72.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 72.3 |
| project costs | 0.0 | 0.0 | 0.0 | 0.0 | 38.0 | 1,960.0 | 5,297.9 | 2,160.3 | 0.0 | (0.0) | 0.0 | (0.0) | 9,456.2 |
| Ending balance, 2nd bond sale proceeds | 0.0 | 0.0 | 0.0 | 0.0 | 8,508.1 | 7,076.5 | 2,089.4 | 0.0 | (0.0) | 0.0 | 0.0 | 0.0 | |
| | | | | | | | | | | | | | |
| Totals: | | | | | | | | | | | | | |
| Beginning balance, all funds | 0.0 | 23,259.4 | 24,334.0 | 23,131.8 | 23,833.0 | 31,022.6 | 23,731.2 | 11,441.3 | 3,497.3 | 315.9 | 5.7 | 41.8 | |
| plus: bond sale proceeds | 22,965.0 | 0.0 | 0.0 | 0.0 | 8,535.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31,500.0 |
| cash donations, Zoo Society | 313.0 | 1,930.0 | 930.0 | 322.0 | 325.0 | 473.5 | 452.8 | 482.0 | 840.0 | 1,023.1 | 1,210.0 | 295.0 | 8,596.4 |
| donations, Seattle and King County | 60.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 60.0 |
| interest earnings | 539.3 | 1,789.5 | 1,743.3 | 1,997.0 | 1,850.6 | 2,082.4 | 1,276.7 | 579.7 | 182.4 | 52.7 | 49.3 | 13.2 | 12,156.1 |
| less: bond/note sale expenses | 62.8 | 0.0 | 0.0 | 0.0 | 72.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 135.1 |
| project costs | 555.2 | 2,644.8 | 3,875.6 | 1,617.8 | 3,448.6 | 9,847.3 | 14,019.4 | 9,005.7 | 4,203.8 | 1,386.1 | 1,223.1 | 350.0 | 52,177.4 |
| Ending balance, all funds | 23,259.4 | 24,334.0 | 23,131.8 | 23,833.0 | 31,022.6 | 23,731.2 | 11,441.3 | 3,497.3 | 315.9 | 5.7 | 41.8 | 0.0 | |
| | | | | | | | | | | | | | |
| ZOO SOCIETY DONATIONS RECAP | | | | | | | | | | | | | |
| In Kind Donations | 0.0 | 0.0 | 100.0 | 85.0 | 65.0 | 160.0 | 181.5 | 237.2 | 288.0 | 190.0 | 96.9 | 0.0 | 1,403.6 |
| Cash Donations | 313.0 | 1,930.0 | 930.0 | 322.0 | 325.0 | 473.5 | 452.8 | 482.0 | 840.0 | 1,023.1 | 1,210.0 | 295.0 | 8,596.4 |
| Totals | 313.0 | 1,930.0 | 1,030.0 | 407.0 | 390.0 | 633.5 | 634.4 | 719.1 | 1,128.0 | 1,213.1 | 1,306.9 | 295.0 | 10,000.0 |

| ASSUMPTIONS | Interest earnings rate - restricted: | 6.9% | Second bond issue: sale - October 10, 1990 |
|-------------|--------------------------------------|--------------------------|--|
| | - unrestricted: | 8.0% (For entire period) | closing - November 10, 1990: |
| | Inflation update: 1985 to 1988 | 5.5% (Per year) | 10.314 |

Zoo Finance and Development Plan

Includes inflation reserve at project level
(Dollars in 000's)

| | -----Actuals----- | | | | | -----Projected----- | | | | | TOTALS | | |
|---|-------------------|---------|---------|---------|---------|---------------------|---------|---------|-------|-------|--------|------|----------|
| | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | | 1996 | 1997 |
| --First Bond Sale Projects-- | | | | | | | | | | | | | |
| Zoo Project Overall Planning (72801) | 65.0 | 138.1 | 17.1 | 35.5 | 24.3 | 25.0 | 20.0 | 10.0 | | | | | 335.0 |
| - Inflated Dollars | 65.0 | 138.1 | 17.1 | 35.5 | 24.3 | 25.0 | 20.0 | 10.0 | | | | | 335.0 |
| Major Utilities Installation (72802) | | 37.6 | 173.2 | 92.6 | 200.0 | 530.0 | 1,000.0 | 1,470.7 | | | | | 3,504.0 |
| - Inflated Dollars | | 37.6 | 173.2 | 92.6 | 200.0 | 530.0 | 1,000.0 | 1,470.7 | | | | | 3,504.0 |
| Asian Elephant Exhibit (72803) (incl in-kind) | 489.3 | 2,258.1 | 2,774.4 | 495.2 | 86.0 | 200.0 | | | | | | | 6,303.0 |
| - Inflated Dollars | 489.3 | 2,258.1 | 2,774.4 | 495.2 | 86.0 | 200.0 | | | | | | | 6,303.0 |
| NW Parking Lot and Parking Study (Consolidated 72805) | | 31.4 | 97.1 | 30.1 | 153.2 | 492.3 | | | | | | | 804.0 |
| - Inflated Dollars | | 31.4 | 97.1 | 30.1 | 153.2 | 492.3 | | | | | | | 804.0 |
| Graphics and site improvements (First bond sale related) (72806) | | 17.1 | 113.2 | 176.0 | 218.8 | | | | | | | | 525.0 |
| - Inflated Dollars | | 17.1 | 113.2 | 176.0 | 218.8 | | | | | | | | 525.0 |
| Asian Trop Forest Zone (72807) | 0.1 | 40.4 | 266.1 | 187.5 | 300.0 | 1,700.0 | 2,962.9 | 1,450.0 | | | | | 6,907.0 |
| - Inflated Dollars | 0.1 | 40.4 | 266.1 | 187.5 | 300.0 | 1,700.0 | 2,962.9 | 1,450.0 | | | | | 6,907.0 |
| African/ S Amer Tropical Forest Zone (72808) | | 72.9 | 182.0 | 284.2 | 1,461.0 | 3,100.0 | 3,780.9 | | | | | | 8,881.0 |
| - Inflated Dollars | | 72.9 | 182.0 | 284.2 | 1,461.0 | 3,100.0 | 3,780.9 | | | | | | 8,881.0 |
| Family Farm improvements (Consolidated 72809) | | 1.6 | 3.6 | 10.5 | 20.0 | 300.0 | 376.3 | 500.0 | | | | | 1,212.0 |
| - Inflated Dollars | | 1.6 | 3.6 | 10.5 | 20.0 | 300.0 | 376.3 | 500.0 | | | | | 1,212.0 |
| Keeper and maintenance improvements (Consolidated 72810, design only) | 0.8 | 40.8 | 169.0 | 207.4 | 515.3 | | | | | | | | 933.3 |
| - Inflated Dollars | 0.8 | 40.8 | 169.0 | 207.4 | 515.3 | | | | | | | | 933.3 |
| Gift/Food/bookstore (Consolidated 72813) | | 6.9 | 109.9 | 12.3 | 100.0 | 400.0 | 400.0 | 1,120.9 | 500.0 | | | | 2,650.0 |
| - Inflated Dollars | | 6.9 | 109.9 | 12.3 | 100.0 | 400.0 | 400.0 | 1,120.9 | 500.0 | | | | 2,650.0 |
| Taiga Zone / Montane (Consolidated 72814 - design only) | | | 47.6 | 88.1 | 150.0 | 1,000.0 | | | | | | | 1,285.7 |
| - Inflated Dollars | | | 47.6 | 88.1 | 150.0 | 1,000.0 | | | | | | | 1,285.7 |
| Visitor Amenities (72829) | | | 22.4 | 68.5 | 190.0 | 300.0 | 328.0 | 200.0 | 250.0 | 304.1 | | | 1,663.0 |
| - Inflated Dollars | | | 22.4 | 68.5 | 190.0 | 300.0 | 328.0 | 200.0 | 250.0 | 304.1 | | | 1,663.0 |
| Status, first bond sale projects: | | | | | | | | | | | | | |
| Total Project Costs in 1988 dollars | 555.2 | 2,644.8 | 3,975.6 | 1,687.8 | 3,418.6 | 8,047.3 | 8,868.1 | 4,751.6 | 750.0 | 304.1 | | | 35,003.0 |
| Inflation reserve | | | | | | | | | | | | | |
| Project Costs in actual dollars | 555.2 | 2,644.8 | 3,975.6 | 1,687.8 | 3,418.6 | 8,047.3 | 8,868.1 | 4,751.6 | 750.0 | 304.1 | | | 35,003.0 |
| Unallocated contingency reserves | | | | | | | | | | | | | |
| Total inflation and contingency reserves | | | | | | | | | | | | | |
| Total Project Costs | 555.2 | 2,644.8 | 3,975.6 | 1,687.8 | 3,418.6 | 8,047.3 | 8,868.1 | 4,751.6 | 750.0 | 304.1 | | | 35,003.0 |

786
984

Zoo Finance and Development Plan

| | -----Actuals----- | | | | | -----Projected----- | | | | | | | TOTALS |
|--|-------------------|---------|---------|---------|---------|---------------------|----------|---------|---------|---------|---------|-------|----------|
| | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | |
| --Second Bond Sale Projects-- | | | | | | | | | | | | | |
| Graphics and site improvements (Second bond sale related) (72806) | | | | | | 170.0 | 170.0 | 170.0 | 170.0 | 170.0 | 126.0 | | 976.0 |
| - Inflated Dollars | | | | | | 170.0 | 170.0 | 170.0 | 170.0 | 170.0 | 126.0 | | 976.0 |
| Taiga Zone / Montane (Consolidated 72814 - construction) | | | | | | | 1,757.0 | 2,634.3 | 2,000.0 | | | | 6,391.3 |
| - Inflated Dollars | | | | | | | 1,757.0 | 2,634.3 | 2,000.0 | | | | 6,391.3 |
| Keeper and maintenance improvements (Consolidated 72810, construction) | | | | | | 1,200.0 | 2,713.7 | | | | | | 3,913.7 |
| - Inflated Dollars | | | | | | 1,200.0 | 2,713.7 | | | | | | 3,913.7 |
| Completion of Savanna Zone (72816) | | | | | 10.0 | 140.0 | 100.0 | 537.0 | | | | | 787.0 |
| - Inflated Dollars | | | | | 10.0 | 140.0 | 100.0 | 537.0 | | | | | 787.0 |
| Steppe Zone (72817) | | | | | | | | | 100.0 | 380.0 | 518.0 | 350.0 | 1,348.0 |
| - Inflated Dollars | | | | | | | | | 100.0 | 380.0 | 518.0 | 350.0 | 1,348.0 |
| Desert Zone/Tropical Nocturnal (Consolidated 72824) | | | | | | 300.0 | 492.2 | 700.0 | 1,079.8 | | | | 2,572.0 |
| - Inflated Dollars | | | | | | 300.0 | 492.2 | 700.0 | 1,079.8 | | | | 2,572.0 |
| Temperate Deciduous and Rain Forest Zones (72825) | | | | | | | | 100.0 | 300.0 | 692.0 | 300.0 | | 1,392.0 |
| - Inflated Dollars | | | | | | | | 100.0 | 300.0 | 692.0 | 300.0 | | 1,392.0 |
| Other Special Exhibits (72827) | | | | | | | | | 20.0 | 30.0 | 376.0 | | 426.0 |
| - Inflated Dollars | | | | | | | | | 20.0 | 30.0 | 376.0 | | 426.0 |
| Off-site breeding and holding (72828) | | | | 15.0 | 85.0 | 150.0 | 100.0 | 350.0 | 72.0 | | | | 772.0 |
| - Inflated Dollars | | | | 15.0 | 85.0 | 150.0 | 100.0 | 350.0 | 72.0 | | | | 772.0 |
| Status, second bond sale projects: | | | | | | | | | | | | | |
| Total Project Costs in 1988 dollars | | | | 15.0 | 95.0 | 1,960.0 | 5,332.9 | 4,491.3 | 3,741.8 | 1,272.0 | 1,320.0 | 350.0 | 18,578.0 |
| Inflation reserve | | | | | | | | | | | | | |
| Project Costs in actual dollars | | | | 15.0 | 95.0 | 1,960.0 | 5,332.9 | 4,491.3 | 3,741.8 | 1,272.0 | 1,320.0 | 350.0 | 18,578.0 |
| Unallocated contingency reserves | | | | | | | | | | | | | |
| Total inflation and contingency reserves | | | | | | | | | | | | | |
| Total Project Costs | | | | 15.0 | 95.0 | 1,960.0 | 5,332.9 | 4,491.3 | 3,741.8 | 1,272.0 | 1,320.0 | 350.0 | 18,578.0 |
| Summary status, all projects: | | | | | | | | | | | | | |
| Total Project Costs in 1988 dollars | 555.2 | 2,644.8 | 3,975.6 | 1,702.8 | 3,513.6 | 8,807.3 | 11,487.3 | 9,242.9 | 4,491.8 | 1,576.1 | 1,320.0 | 350.0 | 49,667.4 |
| Inflation reserve | | | | | | | | | | | | | |
| Project Costs in actual dollars | 555.2 | 2,644.8 | 3,975.6 | 1,702.8 | 3,513.6 | 8,807.3 | 11,487.3 | 9,242.9 | 4,491.8 | 1,576.1 | 1,320.0 | 350.0 | 49,667.4 |
| Unallocated contingency reserves | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total inflation and contingency reserves | | | | | | | | | | | | | |
| Total Project Costs | 555.2 | 2,644.8 | 3,975.6 | 1,702.8 | 3,513.6 | 8,807.3 | 11,487.3 | 9,242.9 | 4,491.8 | 1,576.1 | 1,320.0 | 350.0 | 49,667.4 |