

Revised 35% Design Construction Cost Estimate

**New Savannah Bluff Dam Fish Passage Facility
Richmond County, Georgia**

December 3, 2002

Submitted To:

**Mobile District, USACE
109 St. Joseph Street
Mobile, Alabama 36602**

Submitted By:



**BTG Inc. Delta Engineering Technology Division
1501 Merchants Way
Niceville, Florida 32578
(850) 897-5380**

Todd Koski
Cost Estimator

December 3, 2002

Mobile District, USACE
Attn: Mr. Bill Griffin:
109 St. Joseph Street
Mobile, Alabama 36602

SUBJECT: New Savannah Bluff Dam Fish Passage Facility,
Richmond County, Georgia

Dear Mr. Griffin:

We are pleased to submit the attached Phase II Feasibility Study (35% design) estimate for the New Savannah Bluff Dam Fish Passage Facility project.

1. The enclosed estimate reflects our best cost evaluation for the current construction bidding climate. Our estimate is based on the assumption of open competitive bidding by the parties involved. This estimate does not include furnishings, professional fees, equipment, abatement of hazardous materials, municipal impact fees, utility tap fees, or any items not specifically identified in the itemized report.
2. Existing conditions and dimensional information were derived from the drawings, specifications, design analysis, and other technical information dated November 2002.
3. This estimate is based on a mid-point of construction of July 2004. Prices will increase at a rate tied to inflation if this date changes. This estimate also assumes a project duration of eight months. Contractor expenses may change if the project duration is changed.
4. This estimate is based on the information available at this time. The final costs of the project will depend on the actual labor and material costs, competitive market conditions, final project scope, implementation schedule, and other variable factors at the time of award. As a result, the final project costs most likely will vary from the estimate. Because of this, project feasibility and funding availability should be carefully reviewed prior to making specific financial decisions, to help ensure proper project evaluation, choices, and adequate funding.
5. The estimate is based on the assumption that all access will be across the lake from the Georgia Park site.
6. Per our discussions with Mr. Ron Grady at Framatome ANP, we have allowed fifteen working days to make the final stone adjustments in the channel.

7. Estimated quantities are based on the Material Quantity Estimate supplied by Framatome. These quantities have been validated with our own quantity take-off calculations. The estimate reflects minor modifications to the provided Material Quantities Estimate as noted on the attached copy of the quantities shown in the backup documentation.

BTG appreciates the opportunity to provide this estimating service. If you have any questions about this estimate, please give me a call at (850) 897-5380.

Sincerely,

Todd Koski
Cost Estimator

COST ESTIMATE SUBMITTAL
CHECKLIST

COST ESTIMATE SUBMITTAL CHECKLIST

Project: Savannah Bluff Dam Fish Passage Facility
Location: Savannah Bluff Dam, Richmond County, Georgia
A-E Name: Framatome ANP DE&S, Inc.

[X] Construction Cost Estimate

Check Type of Estimate Program: **Military**
 Civil
 HTRW
 Other (specify) _____

Check Level of Estimate: Military: **Programming Effort**
 Project Definition
 Initial **Final**
 Concept
 Interim
 Final
 Ready-To-Advertise
 Change Order
 Other (specify)

Civil: **Reconnaissance**
 DM/Baseline
 Plans and Specs
 Other (35% Design)

HTRW: **Level of Design** _____

Other: **Level of Design** _____

Type of Cost Estimate: **Manual (pencil)**
 PACES
 MCACES GOLD
 Excel Spreadsheet
 Other (specify) _____

Estimate Hierarchy: **Normal Work Breakdown Structure (WBS)**
 Full Work Breakdown Structure (WBS)
 Partial Work Breakdown Structure (WBS)
 Special (Separate Handout)

Note: The RTA cost estimate that is submitted to the Government shall be accompanied by a letter of transmittal which includes the following statement: “To

the best of my knowledge the confidential nature of this estimate has been maintained”

AF Form 1178 (AF Projects Only)

1.44MB 3-1/2” Diskettes containing a electronic copy of the PROJECT DATABASE, and a separate Diskette of the Labor Rates Database. These databases shall be “SAVE TO COMPRESSED” DO NOT CHANGE ANY OTHER DATABASES.

Supporting Data:

Quantity Survey Documentation

Quantity Derivations

Current Price Quotations

HAG Data Sheet

Annotated Comments, as appropriate

HAG DATA SHEET

HAG DATA INPUT SHEET

(Estimate Must Be Prepared Using the Work Breakdown Structure to the Fourth Level)

PROJECT NAME: Savannah Bluff Dam Fish Passage Facility

PROJECTLOCATION: Savannah Bluff Dam, Richmond County, Georgia

PROJECT NUMBER: _____ (Not Required from A-E)
(Use last 9 digits of Solicitation Number, including Hyphens)

SERVICE: (circle one) 1. Army 2. Air Force 3. Navy **4. Civil** 5. Other

PROGRAM YEAR: FY 02

POC: _____ (Not Required from A-E)

PREPARED BY: (circle one) **1. A-E** 2. In-House

ESTIMATE TYPE: _____ (Not Required from A-E)

PROJECT DESCRIPTION:

The scope of this project consists of construction of a new fish passage facility (fish ladder) using the “horseshoe” configuration based on the Phase II Feasibility documents dated November 2002.

A-E or COST CONSULTANT (Company Name): BTG Inc. Applied Engineering Solutions

PROGRAMMED AMOUNT: _____ (Not Required from A-E)

CATEGORY CODE: _____ (Not Required from A-E)

Mon 02 Dec 2002
Eff. Date 12/03/02

U.S. Army Corps of Engineers
PROJECT SLD32F: Savannah Bluff Fish Bypass Sys - Savannah Bluff Lock & Dam
Savannah Lock & Dam, Fish Ladder Final Draft

TIME 10:23:24
TITLE PAGE 1

Savannah Bluff Fish Bypass Sys
Savannah Bluff Lock & Dam
Richmond County, GA
Phase II Feasibility Study
(35% Design)

Designed By: Framatome ANP DE&S
Estimated By: JRW & TK

Prepared By: Titan Systems Corporation
Applied Engineering Solutions

Preparation Date: 12/03/02
Effective Date of Pricing: 12/03/02
Est Construction Time: 240 Days

Sales Tax: 7.00%

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M C A C E S G O L D E D I T I O N
Composer GOLD Software Copyright (c) 1985-1994
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Release 5.30

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PROJECT NOTES

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PROJECT SLD32F: Savannah Bluff Fish Bypass Sys - Savannah Bluff Lock & Dam
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This revised estimate incorporates the latest changes to the fish ladder preliminary designs and uses a 3 percent slope for the fish ladders. The estimate is based on the drawings and specifications dated November 2002.

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Savannah Lock & Dam, Fish Ladder Final Draft
** PROJECT OWNER SUMMARY - Contract (Rounded to 100's) **

TIME 10:23:24

SUMMARY PAGE 1

| | | QUANTITY | UOM | CONTRACT | ESCALATN | CONTINGN | SIOH | TOTAL COST | UNIT COST |
|----|-----------------------|----------|-----|-----------|----------|----------|---------|------------|-----------|
| 09 | Horseshoe Fish Ladder | | | 2,725,500 | 130,800 | 714,100 | 205,300 | 3,775,700 | |

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Eff. Date 12/03/02

U.S. Army Corps of Engineers
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Savannah Lock & Dam, Fish Ladder Final Draft
** PROJECT OWNER SUMMARY - Feature (Rounded to 100's) **

TIME 10:23:24

SUMMARY PAGE 2

| ----- | | | | | | | | | |
|-----------------------------|-------------------------|------|----------|-----------|----------|---------|------------|-----------|---------|
| | QUANTITY | UOM | CONTRACT | ESCALATN | CONTINGN | SIOH | TOTAL COST | UNIT COST | |
| ----- | | | | | | | | | |
| 09 | Horseshoe Fish Ladder | | | | | | | | |
| 09.06 | Fish Facilities at Dams | 1.00 | EA | 2,725,500 | 130,800 | 714,100 | 205,300 | 3,775,700 | 3775732 |
| TOTAL Horseshoe Fish Ladder | | | | 2,725,500 | 130,800 | 714,100 | 205,300 | 3,775,700 | |

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U.S. Army Corps of Engineers
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** PROJECT OWNER SUMMARY - Sub-Feat (Rounded to 100's) **

TIME 10:23:24

SUMMARY PAGE 3

| | QUANTITY | UOM | CONTRACT | ESCALATN | CONTINGN | SIOH | TOTAL COST | UNIT COST |
|-------------------------------|----------|-----|-----------|----------|----------|---------|------------|-----------|
| 09 Horseshoe Fish Ladder | | | | | | | | |
| 09.06 Fish Facilities at Dams | | | | | | | | |
| 09.06.44 Fishways and Ladders | 1.00 | EA | 2,725,500 | 130,800 | 714,100 | 205,300 | 3,775,700 | 3775732 |
| TOTAL Fish Facilities at Dams | 1.00 | EA | 2,725,500 | 130,800 | 714,100 | 205,300 | 3,775,700 | 3775732 |
| TOTAL Horseshoe Fish Ladder | | | 2,725,500 | 130,800 | 714,100 | 205,300 | 3,775,700 | |

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 ** PROJECT OWNER SUMMARY - Element (Rounded to 100's) **

TIME 10:23:24

SUMMARY PAGE 4

| | | QUANTITY | UOM | CONTRACT | ESCALATN | CONTINGN | SIOH | TOTAL COST | UNIT COST |
|-------------------------------|---------------------------------|----------|-----|-----------|----------|----------|---------|------------|-----------|
| ----- | | | | | | | | | |
| 09 Horseshoe Fish Ladder | | | | | | | | | |
| 09.06 Fish Facilities at Dams | | | | | | | | | |
| 09.06.44 Fishways and Ladders | | | | | | | | | |
| 09.06.44.02 | Excavation, Riprap and Sitework | 1.00 | EA | 1,498,500 | 71,900 | 392,600 | 112,900 | 2,075,900 | 2075857 |
| 09.06.44.03 | Concrete Structures | 2.00 | EA | 1,227,100 | 58,900 | 321,500 | 92,400 | 1,699,900 | 849937.45 |
| TOTAL Fishways and Ladders | | 1.00 | EA | 2,725,500 | 130,800 | 714,100 | 205,300 | 3,775,700 | 3775732 |
| TOTAL Fish Facilities at Dams | | 1.00 | EA | 2,725,500 | 130,800 | 714,100 | 205,300 | 3,775,700 | 3775732 |
| TOTAL Horseshoe Fish Ladder | | | | 2,725,500 | 130,800 | 714,100 | 205,300 | 3,775,700 | |

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Savannah Lock & Dam, Fish Ladder Final Draft
** PROJECT INDIRECT SUMMARY - Contract (Rounded to 100's) **

TIME 10:23:24
SUMMARY PAGE 5

| | QUANTITY | UOM | DIRECT | OVERHEAD | HOME OFC | PROFIT | BOND/INS | TOTAL COST | UNIT COST |
|--------------------------|----------|-----|-----------|----------|----------|---------|----------|------------|-----------|
| 09 Horseshoe Fish Ladder | | | 2,102,600 | 233,200 | 70,100 | 245,400 | 74,200 | 2,725,500 | |

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Savannah Lock & Dam, Fish Ladder Final Draft
** PROJECT INDIRECT SUMMARY - Feature (Rounded to 100's) **

TIME 10:23:24

SUMMARY PAGE 6

| | QUANTITY | UOM | DIRECT | OVERHEAD | HOME OFC | PROFIT | BOND/INS | TOTAL COST | UNIT COST |
|-------------------------------|----------|-----|-----------|----------|----------|---------|----------|------------|-----------|
| 09 Horseshoe Fish Ladder | | | | | | | | | |
| 09.06 Fish Facilities at Dams | 1.00 | EA | 2,102,600 | 233,200 | 70,100 | 245,400 | 74,200 | 2,725,500 | 2725506 |
| TOTAL Horseshoe Fish Ladder | | | 2,102,600 | 233,200 | 70,100 | 245,400 | 74,200 | 2,725,500 | |

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** PROJECT INDIRECT SUMMARY - Sub-Feat (Rounded to 100's) **

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SUMMARY PAGE 7

| | QUANTITY | UOM | DIRECT | OVERHEAD | HOME OFC | PROFIT | BOND/INS | TOTAL COST | UNIT COST |
|-------------------------------|----------|-----|-----------|----------|----------|---------|----------|------------|-----------|
| 09 Horseshoe Fish Ladder | | | | | | | | | |
| 09.06 Fish Facilities at Dams | | | | | | | | | |
| 09.06.44 Fishways and Ladders | 1.00 | EA | 2,102,600 | 233,200 | 70,100 | 245,400 | 74,200 | 2,725,500 | 2725506 |
| TOTAL Fish Facilities at Dams | 1.00 | EA | 2,102,600 | 233,200 | 70,100 | 245,400 | 74,200 | 2,725,500 | 2725506 |
| TOTAL Horseshoe Fish Ladder | | | 2,102,600 | 233,200 | 70,100 | 245,400 | 74,200 | 2,725,500 | |

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 ** PROJECT INDIRECT SUMMARY - Element (Rounded to 100's) **

TIME 10:23:24

SUMMARY PAGE 8

| | | QUANTITY | UOM | DIRECT | OVERHEAD | HOME OFC | PROFIT | BOND/INS | TOTAL COST | UNIT COST |
|-------------------------------|---------------------------------|----------|-----|-----------|----------|----------|---------|----------|------------|-----------|
| ----- | | | | | | | | | | |
| 09 Horseshoe Fish Ladder | | | | | | | | | | |
| 09.06 Fish Facilities at Dams | | | | | | | | | | |
| 09.06.44 Fishways and Ladders | | | | | | | | | | |
| 09.06.44.02 | Excavation, Riprap and Sitework | 1.00 | EA | 1,156,000 | 128,200 | 38,500 | 134,900 | 40,800 | 1,498,500 | 1498454 |
| 09.06.44.03 | Concrete Structures | 2.00 | EA | 946,600 | 105,000 | 31,500 | 110,500 | 33,400 | 1,227,100 | 613526.10 |
| TOTAL Fishways and Ladders | | 1.00 | EA | 2,102,600 | 233,200 | 70,100 | 245,400 | 74,200 | 2,725,500 | 2725506 |
| TOTAL Fish Facilities at Dams | | 1.00 | EA | 2,102,600 | 233,200 | 70,100 | 245,400 | 74,200 | 2,725,500 | 2725506 |
| TOTAL Horseshoe Fish Ladder | | | | 2,102,600 | 233,200 | 70,100 | 245,400 | 74,200 | 2,725,500 | |

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** PROJECT DIRECT SUMMARY - Contract (Rounded to 100's) **

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SUMMARY PAGE 9

| | | QUANTITY | UOM | MANHRS | LABOR | EQUIPMNT | MATERIAL | OTHER | TOTAL COST | UNIT COST |
|----|-----------------------|----------|-----|--------|---------|----------|----------|--------|------------|-----------|
| 09 | Horseshoe Fish Ladder | | | 33,300 | 741,000 | 571,300 | 760,700 | 29,600 | 2,102,600 | |

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** PROJECT DIRECT SUMMARY - Feature (Rounded to 100's) **

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SUMMARY PAGE 10

| ----- | | | | | | | | | | |
|-------|-----------------------------|----------|-----|--------|---------|----------|----------|--------|------------|-----------|
| ----- | | | | | | | | | | |
| | | QUANTITY | UOM | MANHRS | LABOR | EQUIPMNT | MATERIAL | OTHER | TOTAL COST | UNIT COST |
| ----- | | | | | | | | | | |
| 09 | Horseshoe Fish Ladder | | | | | | | | | |
| 09.06 | Fish Facilities at Dams | 1.00 | EA | 33,300 | 741,000 | 571,300 | 760,700 | 29,600 | 2,102,600 | 2102616 |
| | TOTAL Horseshoe Fish Ladder | | | 33,300 | 741,000 | 571,300 | 760,700 | 29,600 | 2,102,600 | |

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** PROJECT DIRECT SUMMARY - Sub-Feat (Rounded to 100's) **

TIME 10:23:24

SUMMARY PAGE 11

| | QUANTITY | UOM | MANHRS | LABOR | EQUIPMNT | MATERIAL | OTHER | TOTAL COST | UNIT COST |
|-------------------------------|----------|-----|--------|---------|----------|----------|--------|------------|-----------|
| 09 Horseshoe Fish Ladder | | | | | | | | | |
| 09.06 Fish Facilities at Dams | | | | | | | | | |
| 09.06.44 Fishways and Ladders | 1.00 | EA | 33,300 | 741,000 | 571,300 | 760,700 | 29,600 | 2,102,600 | 2102616 |
| TOTAL Fish Facilities at Dams | 1.00 | EA | 33,300 | 741,000 | 571,300 | 760,700 | 29,600 | 2,102,600 | 2102616 |
| TOTAL Horseshoe Fish Ladder | | | 33,300 | 741,000 | 571,300 | 760,700 | 29,600 | 2,102,600 | |

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U.S. Army Corps of Engineers
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Savannah Lock & Dam, Fish Ladder Final Draft
** PROJECT DIRECT SUMMARY - Element (Rounded to 100's) **

TIME 10:23:24

SUMMARY PAGE 12

| ----- | | | | | | | | | | |
|-------------|---------------------------------|------|--------|--------|----------|----------|---------|------------|-----------|-----------|
| ----- | | | | | | | | | | |
| | QUANTITY | UOM | MANHRS | LABOR | EQUIPMNT | MATERIAL | OTHER | TOTAL COST | UNIT COST | |
| ----- | | | | | | | | | | |
| 09 | Horseshoe Fish Ladder | | | | | | | | | |
| 09.06 | Fish Facilities at Dams | | | | | | | | | |
| 09.06.44 | Fishways and Ladders | | | | | | | | | |
| 09.06.44.02 | Excavation, Riprap and Sitework | 1.00 | EA | 14,200 | 323,900 | 396,100 | 406,400 | 29,600 | 1,156,000 | 1155996 |
| 09.06.44.03 | Concrete Structures | 2.00 | EA | 19,200 | 417,200 | 175,200 | 354,300 | 0 | 946,600 | 473310.16 |
| | TOTAL Fishways and Ladders | 1.00 | EA | 33,300 | 741,000 | 571,300 | 760,700 | 29,600 | 2,102,600 | 2102616 |
| | TOTAL Fish Facilities at Dams | 1.00 | EA | 33,300 | 741,000 | 571,300 | 760,700 | 29,600 | 2,102,600 | 2102616 |
| | TOTAL Horseshoe Fish Ladder | | | 33,300 | 741,000 | 571,300 | 760,700 | 29,600 | 2,102,600 | |

| 0.01. Prime Marine Contractor | | QUANTY | UOM | CREW ID | OUTPUT | MANHRS | LABOR | EQUIPMNT | MATERIAL | OTHER | TOTAL COST | UNIT COST |
|-------------------------------|---------------|-------------------------------|--------|---------|--------|--------|---------|----------|----------|-------|------------|-----------|
| 0.01. Prime Marine Contractor | | | | | | | | | | | | |
| 0.01. 0. Overhead Items - AA | | | | | | | | | | | | |
| M CIV | <01500 1101 > | Field Office Trailer | 8.00 | MOS | N/A | 0.00 | 0.00 | 0.00 | 294.25 | 0.00 | 294.25 | 294.25 |
| | | | | | | 0 | 0 | 0 | 2,354 | 0 | 2,354 | 294.25 |
| USR | <01500 1102 > | Fencing @ Storage Area | 700.00 | LF | N/A | 0.00 | 0.50 | 0.00 | 3.21 | 0.00 | 3.71 | 3.71 |
| | | | | | | 0 | 350 | 0 | 2,247 | 0 | 2,597 | 3.71 |
| USR | <01500 1103 > | Office Supplies | 8.00 | MON | N/A | 0.00 | 0.00 | 0.00 | 133.75 | 0.00 | 133.75 | 133.75 |
| | | | | | | 0 | 0 | 0 | 1,070 | 0 | 1,070 | 133.75 |
| USR | <01700 0001 > | Contract Closeout | 1.00 | MON | N/A | 0.00 | 1200.00 | 100.00 | 214.00 | 0.00 | 1514.00 | 1514.00 |
| | | | | | | 0 | 1,200 | 100 | 214 | 0 | 1,514 | 1514.00 |
| MIL | <01710 1111 > | Debris Removal & Disposal | 400.00 | CSF | ULABB | 11.25 | 0.22 | 4.65 | 0.04 | 1.87 | 6.56 | 6.56 |
| | | | | | | 89 | 1,860 | 15 | 749 | 0 | 2,625 | 6.56 |
| USR | <01710 1112 > | Continuous Cleanup | 8.00 | MON | N/A | 0.00 | 300.00 | 50.00 | 0.00 | 0.00 | 350.00 | 350.00 |
| | | | | | | 0 | 2,400 | 400 | 0 | 0 | 2,800 | 350.00 |
| USR | <01710 2112 > | Final Job Clean-Up | 1.00 | LS | N/A | 0.00 | 1200.00 | 100.00 | 214.00 | 0.00 | 1514.00 | 1514.00 |
| | | | | | | 0 | 1,200 | 100 | 214 | 0 | 1,514 | 1514.00 |
| M MIL | <01910 1201 > | General Superintendent (P.M.) | 8.00 | MON | N/A | 0.00 | 5300.00 | 0.00 | 0.00 | 0.00 | 5300.00 | 5300.00 |
| | | | | | | 0 | 42,400 | 0 | 0 | 0 | 42,400 | 5300.00 |
| M MIL | <01910 1202 > | Civil Superintendent (P.M.) | 8.00 | MON | N/A | 0.00 | 5000.00 | 0.00 | 0.00 | 0.00 | 5000.00 | 5000.00 |
| | | | | | | 0 | 40,000 | 0 | 0 | 0 | 40,000 | 5000.00 |
| M MIL | <01910 3105 > | Timekeeper | 8.00 | MON | N/A | 0.00 | 1200.00 | 0.00 | 0.00 | 0.00 | 1200.00 | 1200.00 |
| | | | | | | 0 | 9,600 | 0 | 0 | 0 | 9,600 | 1200.00 |
| M MIL | <01910 4207 > | Chief Planning Engineer | 2.00 | MON | N/A | 0.00 | 4200.00 | 0.00 | 0.00 | 0.00 | 4200.00 | 4200.00 |
| | | | | | | 0 | 8,400 | 0 | 0 | 0 | 8,400 | 4200.00 |
| M MIL | <01910 4208 > | Quality Control Engineer | 8.00 | MON | N/A | 0.00 | 4200.00 | 0.00 | 0.00 | 0.00 | 4200.00 | 4200.00 |
| | | | | | | 0 | 33,600 | 0 | 0 | 0 | 33,600 | 4200.00 |
| M MIL | <01910 4209 > | Project Engineer | 2.00 | MON | N/A | 0.00 | 4700.00 | 0.00 | 0.00 | 0.00 | 4700.00 | 4700.00 |
| | | | | | | 0 | 9,400 | 0 | 0 | 0 | 9,400 | 4700.00 |
| M MIL | <01910 5101 > | Chief Purchasing Agent | 1.00 | MON | N/A | 0.00 | 3900.00 | 0.00 | 0.00 | 0.00 | 3900.00 | 3900.00 |
| | | | | | | 0 | 3,900 | 0 | 0 | 0 | 3,900 | 3900.00 |
| USR | <01913 1001 > | Temporary Power | 8.00 | MON | N/A | 0.00 | 0.00 | 0.00 | 428.00 | 0.00 | 428.00 | 428.00 |
| | | | | | | 0 | 0 | 0 | 3,424 | 0 | 3,424 | 428.00 |
| USR | <01913 2001 > | Temporary Water | 8.00 | MON | N/A | 0.00 | 0.00 | 0.00 | 235.40 | 0.00 | 235.40 | 235.40 |
| | | | | | | 0 | 0 | 0 | 1,883 | 0 | 1,883 | 235.40 |

| 0.01. Prime Marine Contractor | | | | QUANTY | UOM | CREW ID | OUTPUT | MANHRS | LABOR | EQUIPMNT | MATERIAL | OTHER | TOTAL COST | UNIT COST |
|-------------------------------|---------------|--|---------|--------|----------|---------|--------|---------|--------|----------|----------|---------|------------|-----------|
| USR | <01913 3001 > | Temporary Sanitary (2ea @ \$40ea) Portable Toilets | 8.00 | MON | N/A | 0.00 | 0 | 0.00 | 0 | 0.00 | 107.00 | 0.00 | 107.00 | 107.00 |
| USR | <01913 4001 > | Temporary Telephone | 8.00 | MON | N/A | 0.00 | 0 | 0.00 | 0 | 481.50 | 3,852 | 0.00 | 481.50 | 481.50 |
| USR | <01500 1102 > | Project Sign(s) | 1.00 | EA | N/A | 0.00 | 0 | 40.00 | 40 | 0.00 | 321.00 | 0.00 | 361.00 | 361.00 |
| USR | <01660 1001 > | Testing Adjusting & Balancing | 1.00 | LS | N/A | 0.00 | 0 | 2000.00 | 2,000 | 0.00 | 535.00 | 0.00 | 2535.00 | 2535.00 |
| USR | <01921 6301 > | Maintain Haul Routes | 1.00 | LS | N/A | 0.00 | 0 | 1000.00 | 1,000 | 300.00 | 214.00 | 0.00 | 1514.00 | 1514.00 |
| USR | <01921 5200 > | Travel Expense (1 Trip Per MON) | 8.00 | EA | N/A | 0.00 | 0 | 0.00 | 0 | 0.00 | 321.00 | 0.00 | 321.00 | 321.00 |
| USR | <01922 3001 > | Insurance | 1.00 | LS | N/A | 0.00 | 0 | 0.00 | 0 | 0.00 | 2354.00 | 0.00 | 2354.00 | 2354.00 |
| USR | <01932 1001 > | Mob and De- Mob Offices | 1.00 | LS | N/A | 0.00 | 0 | 3000.00 | 3,000 | 800.00 | 214.00 | 0.00 | 4014.00 | 4014.00 |
| USR | <01941 3121 > | Storage/Tool Trailer (\$100/MON) | 8.00 | MON | N/A | 0.00 | 0 | 0.00 | 0 | 0.00 | 107.00 | 0.00 | 107.00 | 107.00 |
| M MIL | <01910 4301 > | Surveyor | 8.00 | MON | N/A | 0.00 | 0 | 3000.00 | 24,000 | 0.00 | 0.00 | 0.00 | 3000.00 | 3000.00 |
| USR | <01040 1001 > | Schedule Updates (\$400/MON) | 8.00 | MON | N/A | 0.00 | 0 | 375.00 | 3,000 | 0.00 | 26.75 | 0.00 | 401.75 | 401.75 |
| MIL | < | TRK, HWY, 4X2, F150, 1/2T, 4900 GVW 4X2 1/2-TON PICK-UP, 4900 GVW | 1600.00 | HR | T50FO001 | 1.00 | 0 | 0.00 | 0 | 6.07 | 9,714 | 0.00 | 9,714 | 6.07 |
| MIL | < | TRK, HWY, 4X2, F250, 3/4T, 8600 GVW 4X2 3/4-TON PICK-UP, 8600 GVW | 1600.00 | HR | T50FO003 | 1.00 | 0 | 0.00 | 0 | 6.41 | 10,263 | 0.00 | 10,263 | 6.41 |
| TOTAL Overhead Items - AA | | | 8.00 | MO | | | 89 | 187,350 | 21,693 | 24,139 | 0 | 233,182 | 29147.77 | |

| ----- | | | | | | | | | | | |
|---|---------|-----|----------|--------|---------------|-----------------|------------------|---------------|----------------|------------------|------------------|
| 09.06. Fish Facilities at Dams | | | | | | | | | | | |
| ----- | | | | | | | | | | | |
| | QUANTY | UOM | CREW ID | OUTPUT | MANHRS | LABOR | EQUIPMNT | MATERIAL | OTHER | TOTAL COST | UNIT COST |
| ----- | | | | | | | | | | | |
| 09. Horseshoe Fish Ladder | | | | | | | | | | | |
| 09.06.44.02. Excavation, Riprap and Sitework | | | | | | | | | | | |
| | 1.00 | EA | | | 80 | 9,600 | 8,000 | 2,000 | 12,000 | 31,600 | 31600.00 |
| TOTAL Mobilization and Demobilization | | | | | | | | | | | |
| L USR AA <02225 2155 > Koehring 1166, 4 CY, By Hour | 240.00 | HR | XXQHL | 1.00 | 3.00 720 | 68.43 16,423 | 135.15 32,437 | 0.00 0 | 15.00 3,600 | 218.58 52,460 | 218.58 218.58 |
| L USR AA <02225 1436 > 2.5 CY, Clamshell | 200.00 | HR | UOEHW | 0.86 | 3.50 700 | 82.12 16,424 | 62.19 12,439 | 0.00 0 | 12.00 2,400 | 156.32 31,263 | 156.32 156.32 |
| L USR AA <02226 2304 > Scraper, Std. 15 CY, 621 W/D8 By Hour | 160.00 | HR | CODSB | 1.00 | 1.67 267 | 42.08 6,733 | 91.25 14,599 | 0.00 0 | 12.00 1,920 | 145.33 23,253 | 145.33 145.33 |
| MIL AA <02221 2303 > Trench, Hand Exc, Medium Clay 2'-6' Dp, Piled Only | 800.00 | CY | ULABA | 0.75 | 1.67 1,333 | 34.88 27,907 | 0.27 218 | 0.00 0 | 0.00 0 | 35.16 28,124 | 35.16 35.16 |
| L USR AA <02225 4144 > D6 By Hour | 120.00 | HR | XXQNC | 1.00 | 1.75 210 | 43.29 5,195 | 42.30 5,076 | 0.00 0 | 12.00 1,440 | 97.59 11,711 | 97.59 97.59 |
| L USR AA <02225 2506 > 910, 1.25 CY, By Hour | 480.00 | HR | CODLB | 1.00 | 1.50 720 | 36.80 17,662 | 27.96 13,423 | 0.00 0 | 8.00 3,840 | 72.76 34,925 | 72.76 72.76 |
| AF AA <02221 6004 > Stockpile | 58000 | CY | CODTE | 90.00 | 0.01 806 | 0.36 20,926 | 0.47 27,260 | 0.00 0 | 0.00 0 | 0.83 48,186 | 0.83 0.83 |
| L USR AA <02225 2505 > 973, 3.75 CY, By Hour | 220.00 | HR | CODL1 | 1.00 | 1.00 220 | 25.88 5,694 | 50.00 11,001 | 0.00 0 | 0.00 0 | 75.88 16,695 | 75.88 75.88 |
| L AF AA <02225 3202 > Loading to Barge Rate) | 58000 | CY | COEID | 22.22 | 0.05 2,091 | 0.98 45,452 | 1.46 67,969 | 0.00 0 | 0.00 0 | 2.44 141,549 | 2.44 2.44 |
| <*Mod* 3305 > For Each Additional 1 Mile Haul | | | | | 519 | 11,272 | 16,856 | | | | |
| L AF AA <02225 3204 > Hauling 12 LCY 12 Mile | 58000 | CY | COEID | 24.99 | 0.04 2,320 | 0.87 50,431 | 1.30 75,417 | 0.00 0 | 0.00 0 | 2.17 125,848 | 2.17 2.17 |
| MIL AA < > WORKBOAT,TRKABLE,25.25'X14'X4.5' | 440.00 | HR | M10MZ013 | 1.00 | 0.00 0 | 0.00 0 | 15.22 6,697 | 0.00 0 | 0.00 0 | 15.22 6,697 | 15.22 15.22 |
| L MIL AA < > WORK BARGE-S,MED DUTY,60'X16'X5' | 440.00 | HR | M10MZ009 | 1.00 | 0.00 0 | 0.00 0 | 5.18 2,281 | 0.00 0 | 10.00 4,400 | 15.18 6,681 | 15.18 15.18 |
| MIL AA <06111 8501 > Blocking to Wood,2x4-2x8 So Pine Yellow Pine | 600.00 | BF | ACARC | 25.00 | 0.05 30 | 1.05 629 | 0.05 28 | 0.43 255 | 0.00 0 | 1.52 912 | 1.52 1.52 |
| DLT AA <06132 1003 > Heavy Timber Beams | 6000.00 | BF | ACARS | 125.00 | 0.04 240 | 0.85 5,089 | 0.27 1,598 | 0.79 4,751 | 0.00 0 | 1.91 11,438 | 1.91 1.91 |
| MIL AA <06311 1001 > Creosote Treat, Dosage to 8 #/CF Preservative Treated Lumber | 6.60 | MBF | N/A | 0.00 | 0.00 0 | 0.00 0 | 0.00 0 | 113.46 749 | 0.00 0 | 113.46 749 | 113.46 113.46 |

| 09.06. Fish Facilities at Dams | | QUANTY | UOM | CREW ID | OUTPUT | MANHRS | LABOR | EQUIPMNT | MATERIAL | OTHER | TOTAL COST | UNIT COST |
|--------------------------------|--|---------|-----|---------|--------|--------|--------|----------|----------|-------|------------|-----------|
| MIL AA <06132 2001 > | Hvy Deck - 6x10 So Yel Pine Mill Frame Struc,Hvy Timber Cons | 4000.00 | BF | ACARD | 137.50 | 66 | 1,370 | 63 | 16,050 | 0 | 17,483 | 4.37 |
| MIL AA <06720 8003 > | 3/8 X 6 Lag Bolts | 600.00 | EA | ACARA | 7.50 | 100 | 2,097 | 39 | 1,090 | 0 | 3,227 | 5.38 |
| MIL AA <02102 1103 > | Clear and Grub Med Trees to 10"D (25cm) Dia, Cut and Chip | 4.00 | ACR | COMCA | 0.08 | 320 | 6,962 | 4,347 | 0 | 0 | 11,308 | 2827.05 |
| AF AA <02102 1108 > | Clearing - Medium Brush W/O Grub | 4.00 | ACR | COMCE | 3.50 | 10 | 229 | 204 | 0 | 0 | 433 | 108.32 |
| MIL AA <02102 1201 > | Machine Load Spoils, 2 Mi Haul (3.2km) Haul to Dump | 200.00 | CY | COETF | 5.38 | 149 | 3,340 | 1,821 | 0 | 0 | 5,162 | 25.81 |
| MIL AA <02221 1801 > | Trench, Chain Trencher, Lt Soil 1' Wide x 4' Deep | 7.00 | CY | COBBE | 43.00 | 0 | 5 | 2 | 0 | 0 | 7 | 0.99 |
| MIL AA <02221 5001 > | Backfill Trenches by Hand Without Compaction | 7.00 | CY | ULABA | 1.63 | 5 | 113 | 1 | 0 | 0 | 114 | 16.23 |
| L MIL AA <02540 1001 > | Erosion Control Netting, 4' Wide Jute Mesh, 100 SY (83.6M2) | 711.00 | SY | ULABF | 312.50 | 8 | 166 | 71 | 555 | 0 | 793 | 1.12 |
| L MIL AA <02712 2101 > | 3' (.9M)H 12 Ga Galv Stl Fence 2" x 4" Mesh, Posts at 5' | 1600.00 | LF | ULABF | 37.50 | 149 | 3,121 | 1,340 | 1,167 | 0 | 5,629 | 3.52 |
| L USR AA <02261 1001 > | Rip Rap, 3/8 CY to 1/4 CY Pcs Random, Dumped from Truck | 11700 | TN | COETT | 52.65 | 1,166 | 25,174 | 54,183 | 231,602 | 0 | 310,958 | 26.58 |
| USR AA <02225 1444 > | Placing Boulders Final Adjustmt 50 Ton Motor Crane Assume 20 Cy/Hr | 2880.00 | CY | ZAAAE | 41.00 | 288 | 6,481 | 29,900 | 0 | 0 | 36,381 | 12.63 |
| M MIL AA <02261 1005 > | Weir Stones 5' & 4' Random, Dumped from Truck | 3327.00 | TN | COETF | 32.00 | 416 | 9,334 | 5,089 | 99,677 | 0 | 114,099 | 34.30 |
| M MIL AA <05503 1002 > | Anchor Ring @ Boulders 3/8" Dia Rod w/2" Dia Ring | 500.00 | EA | ACARA | 3.13 | 200 | 4,195 | 78 | 8,132 | 0 | 12,405 | 24.81 |
| L MIL AA <05502 1023 > | 1" Dia x 12"L Wedge Anchor Expansion Bolt w/Nut & Washer | 500.00 | EA | ACARA | 2.50 | 250 | 5,243 | 97 | 4,631 | 0 | 9,972 | 19.94 |
| CIV AA <02535 1019 > | Geotextile Fabric, 150 Mil Thick Non-Woven Polypropylene | 12844 | SY | ULABJ | 112.50 | 343 | 7,191 | 338 | 24,272 | 0 | 31,801 | 2.48 |
| MIL AA <02810 1001 > | Mechanical Seeding, 50#/MSY | 169.40 | CSY | ULABE | 193.75 | 1 | 23 | 1 | 1,405 | 0 | 1,429 | 8.44 |

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|---------------------------------------|--------|---------------|--|--|--------|-------|----------|----------|--------|------------|-----------|----------|---------|----------|-----------|----------|
| 09.06. Fish Facilities at Dams | | | | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | | | | |
| | QUANTY | UOM | CREW ID | OUTPUT | MANHRS | LABOR | EQUIPMNT | MATERIAL | OTHER | TOTAL COST | UNIT COST | | | | | |
| ----- | | | | | | | | | | | | | | | | |
| L | USR | AA | <02830 2005 > | Large Power Mulcher, Oat Straw, 1" Deep | 3.50 | ACR | COELC | 1.52 | 1.32 | 34.03 | 6.34 | 1087.55 | 0.00 | 1127.92 | | |
| | | | | | | | | | | 5 | 119 | 22 | 3,806 | 0 | 3,948 | 1127.92 |
| DLX | AA | <02830 8002 > | Watering By Truck | 152.46 | MSF | COFWI | 87.12 | 0.02 | 0.45 | 0.43 | 0.00 | 0.00 | 0.00 | 0.88 | | |
| | | | | | | | | | | 3 | 69 | 65 | 0 | 0 | 134 | 0.88 |
| AF | AA | <02810 3001 > | Sod In Place Level On Prepared Subgrade, by Hand | 21.78 | MSF | CODEK | 1.13 | 5.33 | 116.03 | 14.83 | 174.41 | 0.00 | 305.26 | | | |
| | | | | | | | | | | 116 | 2,527 | 323 | 3,799 | 0 | 6,649 | 305.26 |
| DLX | AA | <02830 8002 > | Watering By Truck | 21.78 | MSF | COFWI | 87.12 | 0.02 | 0.45 | 0.43 | 0.00 | 0.00 | 0.00 | 0.88 | | |
| | | | | | | | | | | 0 | 10 | 9 | 0 | 0 | 19 | 0.88 |
| MIL | AA | <02830 2003 > | Mulch, Wood Chips | 600.00 | SF | ULABA | 242.25 | 0.01 | 0.11 | 0.00 | 1.07 | 0.00 | 1.18 | | | |
| | | | | | | | | | | 3 | 65 | 0 | 641 | 0 | 707 | 1.18 |
| L | MIL | AA | <02830 7011 > | Guying Trees, 2" to 4" Diameter | 48.00 | EA | ULABF | 5.63 | 0.62 | 13.01 | 5.58 | 6.78 | 0.00 | 25.37 | | |
| | | | | | | | | | | 30 | 624 | 268 | 326 | 0 | 1,218 | 25.37 |
| L | MIL | AA | <02830 7012 > | Guying Trees, 6" to 8" Diameter | 24.00 | EA | ULABF | 1.00 | 3.50 | 73.16 | 31.41 | 13.57 | 0.00 | 118.13 | | |
| | | | | | | | | | | 84 | 1,756 | 754 | 326 | 0 | 2,835 | 118.13 |
| L | MIL | AA | <02830 7015 > | Trees, 7' to 8' High | 72.00 | EA | ULABF | 1.25 | 2.80 | 58.52 | 25.13 | 16.28 | 0.00 | 99.93 | | |
| | | | | | | | | | | 202 | 4,214 | 1,809 | 1,172 | 0 | 7,195 | 99.93 |
| TOTAL Excavation, Riprap and Sitework | | | | 1.00 | EA | | | | | 14,172 | 323,865 | 396,126 | 406,406 | 29,600 | 1,155,996 | 1155996 |
| ----- | | | | | | | | | | | | | | | | |
| 09.06.44.03. Concrete Structures | | | | | | | | | | | | | | | | |
| L | MIL | AA | <02520 2121 > | CIP Concrete Headwall 30 Degree Skewed Wingwall | 150.00 | LF | ALABM | 0.06 | 100.00 | 2096.01 | 62.35 | 906.83 | 0.00 | 3065.19 | | |
| | | | | | | | | | | 15,000 | 314,401 | 9,353 | 136,025 | 0 | 459,779 | 3065.19 |
| M | CIV | AA | <05651 1209 > | 84" x 96" Gates Self Contained Incl AB & Grout Per Quote from Whipps 11/22/02 | 8.00 | EA | SIWSE | 0.06 | 56.00 | 1606.08 | 502.60 | 6525.93 | 0.00 | 8634.61 | | |
| | | | | | | | | | | 448 | 12,849 | 4,021 | 52,207 | 0 | 69,077 | 8634.61 |
| B | CIV | AA | <05651 1211 > | 84" Long Stop Log Sets Self Contained Incl AB & Grout Per Quote Per Whipps Inc 11/21/02 | 1.00 | EA | SIWSE | 0.11 | 31.99 | 917.55 | 287.13 | 12203.35 | 0.00 | 13408.03 | | |
| | | | | | | | | | | 32 | 918 | 287 | 12,203 | 0 | 13,408 | 13408.03 |
| MIL | AA | <05521 1003 > | 2"D(51mm)Welded Pipe Hdrl,2-Rail 3'H (.92M)w/Shop Paint,Stair Mtd | 230.00 | LF | SIWSC | 31.88 | 0.13 | 3.59 | 0.21 | 26.38 | 0.00 | 30.17 | | | |
| | | | | | | | | | | 29 | 826 | 47 | 6,067 | 0 | 6,940 | 30.17 |
| M | MIL | AA | <15939 1001 > | Portable Gate Operator Reversible Per Quote Whipps 11/22/02 | 1.00 | EA | MSHMD | 1.25 | 2.00 | 45.23 | 0.87 | 3390.83 | 0.00 | 3436.93 | | |
| | | | | | | | | | | 2 | 45 | 1 | 3,391 | 0 | 3,437 | 3436.93 |
| MIL | AA | <02411 1004 > | Shoring for 40'(13M) Exc, 38 PSF Steel Sheeting, Pull and Salvage | 100.00 | TON | CPIDV | 0.88 | 9.14 | 205.96 | 182.13 | 729.92 | 0.00 | 1118.01 | | | |
| | | | | | | | | | | 914 | 20,596 | 18,213 | 72,992 | 0 | 111,801 | 1118.01 |

Mon 02 Dec 2002
 Eff. Date 12/03/02
 DETAILED ESTIMATE

U.S. Army Corps of Engineers
 PROJECT SLD32F: Savannah Bluff Fish Bypass Sys - Savannah Bluff Lock & Dam
 Savannah Lock & Dam, Fish Ladder Final Draft
 09. Horseshoe Fish Ladder

TIME 10:23:24
 DETAIL PAGE 6

| 09.06. Fish Facilities at Dams | | QUANTY | UOM | CREW ID | OUTPUT | MANHRS | LABOR | EQUIPMNT | MATERIAL | OTHER | TOTAL COST | UNIT COST |
|--------------------------------|--|---------|-----|------------|--------|--------|--------|----------|----------|-------|------------|-----------|
| B MIL AA < | > PUMP,CENTRF,DW,10"D,3410GPM/60'H | 400.00 | HR | P60GF005 | 1.00 | 0 | 0 | 3,667 | 5,136 | 0 | 8,803 | 22.01 |
| 3 AA < | > Outside Equip. Op. Heavy | 320.00 | HR | X-EQOPRHVY | 1.00 | 320 | 8,896 | 0 | 0 | 0 | 8,896 | 27.80 |
| USR AA < | > Outside Equip. Op. Heavy | 80.00 | HR | X-EQOPRHVY | 1.00 | 80 | 2,264 | 0 | 0 | 0 | 2,264 | 28.30 |
| MIL AA < | > Outside Oiler | 32.00 | HR | X-EQOPROIL | 1.00 | 32 | 634 | 0 | 0 | 0 | 634 | 19.80 |
| MIL AA < | > Outside Equip. Oper Light | 1280.00 | HR | X-EQOPRLT | 1.00 | 1,280 | 33,536 | 0 | 0 | 0 | 33,536 | 26.20 |
| UPB AA < | > FLOATING CRANE, 350T, 140FT BOOM 140ft Boom | 320.00 | HR | XX0XX003 | 1.00 | 0 | 0 | 120,627 | 0 | 0 | 120,627 | 376.96 |
| USR AA < | > FLOATING BOOM & SILT CURTAIN | 320.00 | HR | XMIXX999 | 1.00 | 0 | 0 | 502 | 0 | 0 | 502 | 1.57 |
| MIL AA < | > GENERATOR, 250 KW, 240/480V,SKID | 320.00 | HR | G10CA005 | 1.00 | 0 | 0 | 5,002 | 0 | 0 | 5,002 | 15.63 |
| MIL AA <02712 3101 > | > 8'H Galvanized Fencing | 1400.00 | LF | ULABN | 11.96 | 468 | 9,941 | 5,057 | 29,603 | 0 | 44,601 | 31.86 |
| MIL AA <02244 1001 > | > Soil Poisoning | 1608.00 | SF | ULABA | 562.50 | 4 | 75 | 1 | 120 | 0 | 196 | 0.12 |
| MIL AA <02245 1002 > | > Trm & Shpe f/Slab on Grd by Hand Finish Grade | 1608.00 | SF | ULABA | 75.38 | 27 | 558 | 4 | 0 | 0 | 562 | 0.35 |
| MIL AA <03110 4013 > | > Strt Edge Metal Formwork,8" High (10 cm)H,w/Stakes,10'L,100 Uses | 48.00 | LF | ACARI | 60.00 | 3 | 54 | 1 | 3 | 0 | 58 | 1.22 |
| MIL AA <03210 1003 > | > Gr 60 Resteel,Ftgs & Slabs,#3-#6 | 3.22 | TON | SIWRC | 0.31 | 41 | 952 | 11 | 1,750 | 0 | 2,713 | 843.50 |
| MIL AA <03251 1009 > | > Rubberized Asph Exp Jnt,1/2"x 1" Poured,Hot Applied Fuel Resist | 168.00 | LF | ULABA | 56.25 | 4 | 78 | 1 | 84 | 0 | 163 | 0.97 |
| MIL AA <03251 5014 > | > 24 Ga Galv Stl Keyed Jnt, 7-1/2" (18.8 cm) Cold Expan or Ctrl Jnt | 168.00 | LF | ACARC | 23.75 | 9 | 185 | 8 | 89 | 0 | 283 | 1.68 |
| B MIL AA <03311 1166 > | > Pour Slab on Gr,>= 6", Conc Pump >= (15 cm) Place 3000 PSI Conc | 40.00 | CY | ALABI | 41.25 | 8 | 166 | 89 | 2,279 | 0 | 2,534 | 63.34 |
| MIL AA <03311 4105 > | > Conc Floor Finishes, Stl Trowel | 1608.00 | SF | ACMAC | 68.75 | 26 | 491 | 38 | 0 | 0 | 529 | 0.33 |

LABOR ID: GA0602

EQUIP ID: RG0395

Currency in DOLLARS

CREW ID: GA0602

UPB ID: SAM95A

Mon 02 Dec 2002
 Eff. Date 12/03/02
 DETAILED ESTIMATE

U.S. Army Corps of Engineers
 PROJECT SLD32F: Savannah Bluff Fish Bypass Sys - Savannah Bluff Lock & Dam
 Savannah Lock & Dam, Fish Ladder Final Draft
 09. Horseshoe Fish Ladder

TIME 10:23:24
 DETAIL PAGE 7

| 09.06. Fish Facilities at Dams | | QUANTY | UOM | CREW ID | OUTPUT | MANHRS | LABOR | EQUIPMNT | MATERIAL | OTHER | TOTAL COST | UNIT COST | |
|--------------------------------------|--|---------|-----|---------|--------|--------|-----------------|-----------------|------------------|-----------|-------------------|-----------|-----------|
| MIL AA <03311 5001 > | Floor Hardener, Metallic, Lt Duty 0.3 #/SF | 1608.00 | SF | ACMAC | 106.25 | 17 | 0.20 318 | 0.02 25 | 0.16 258 | 0.00 0 | 0.37 601 | 0.37 | |
| MIL AA <07111 5002 > | 6 Mil Polyethylene Vapor Barrier | 17.00 | CSF | ACARA | 4.63 | 5 | 5.67 96 | 0.11 2 | 3.40 58 | 0.00 0 | 9.18 156 | 9.18 | |
| MIL AA <02411 1003 > | Shoring for 25' (8M) Exc, 38 PSF Steel Sheeting, Pull and Salvage | 42.53 | TON | CPIDV | 0.83 | 412 | 218.45 9,289 | 193.17 8,215 | 752.83 32,014 | 0.00 0 | 1164.45 49,518 | 1164.45 | |
| TOTAL Concrete Structures | | 2.00 | EA | | | | 19,159 | 417,167 | 175,172 | 354,281 | 0 | 946,620 | 473310.16 |
| TOTAL Horseshoe Fish Ladder | | | | | | | 33,331 | 741,032 | 571,298 | 760,686 | 29,600 | 2,102,616 | |
| TOTAL Savannah Bluff Fish Bypass Sys | | 1.00 | EA | | | | 33,331 | 741,032 | 571,298 | 760,686 | 29,600 | 2,102,616 | 2102616 |

Mon 02 Dec 2002
 Eff. Date 12/03/02

U.S. Army Corps of Engineers
 PROJECT SLD32F: Savannah Bluff Fish Bypass Sys - Savannah Bluff Lock & Dam
 Savannah Lock & Dam, Fish Ladder Final Draft
 ** LABOR BACKUP **

TIME 10:23:24
 BACKUP PAGE 1

| ----- | | | | | | | | | | **** TOTAL **** | | ----- | | | | | | | | | |
|----------------|--------------------------------|-------|--------|---------|------|------|-------|-----|----------|-----------------|-------|-------|--|--|--|--|--|--|--|--|--|
| SRC LABOR ID | DESCRIPTION | BASE | OVERTM | TXS/INS | FRNG | TRVL | RATE | UOM | UPDATE | DEFAULT | HOURS | | | | | | | | | | |
| ----- | | | | | | | | | | | | | | | | | | | | | |
| MIL B-CARPNTER | Carpenters | 14.00 | 0.0% | 38.0% | 1.55 | 0.00 | 20.87 | HR | 06/20/02 | 19.84 | 5853 | | | | | | | | | | |
| MIL B-CEMTFINR | Cement Finishers | 11.34 | 5.0% | 60.0% | 0.00 | 0.00 | 19.05 | HR | 06/20/02 | 13.98 | 1293 | | | | | | | | | | |
| MIL B-EQOPRCRN | Eq Oper, Crane/Shovl | 14.07 | 0.0% | 60.0% | 3.80 | 0.00 | 26.31 | HR | 06/20/02 | 21.20 | 565 | | | | | | | | | | |
| MIL B-EQOPRLT | Eq Oper, Light | 14.07 | 0.0% | 29.0% | 3.80 | 0.00 | 21.95 | HR | 06/20/02 | 17.02 | 120 | | | | | | | | | | |
| MIL B-EQOPRMED | Eq Oper, Medium | 13.80 | 0.0% | 60.0% | 3.80 | 0.00 | 25.88 | HR | 06/20/02 | 17.15 | 2139 | | | | | | | | | | |
| MIL B-EQOPROIL | Eq Oper, Oilers | 11.84 | 0.0% | 60.0% | 3.80 | 0.00 | 22.74 | HR | 06/20/02 | 11.00 | 399 | | | | | | | | | | |
| MIL B-LABORER | Laborer (Semi-Skilled) | 11.00 | 5.0% | 60.0% | 2.35 | 0.00 | 20.83 | HR | 06/20/02 | 12.86 | 11298 | | | | | | | | | | |
| MIL B-PILEDRVR | Pile Drivers | 14.00 | 0.0% | 50.0% | 1.55 | 0.00 | 22.55 | HR | 06/20/02 | 23.05 | 829 | | | | | | | | | | |
| MIL B-RODMAN | Rodmen (reinforcing) | 14.28 | 0.0% | 61.0% | 0.00 | 0.00 | 22.99 | HR | 06/20/02 | 17.95 | 1291 | | | | | | | | | | |
| MIL B-SHTMTLWK | Sheet Metal Workers | 16.85 | 0.0% | 20.8% | 3.79 | 0.00 | 24.14 | HR | 06/20/02 | 24.14 | 2 | | | | | | | | | | |
| MIL B-STRSTEEL | Struct Stl Workers | 15.00 | 0.0% | 63.0% | 5.25 | 0.00 | 29.70 | HR | 06/20/02 | 24.06 | 372 | | | | | | | | | | |
| MIL B-TRKDVRHV | Truck Drivers, Heavy | 15.00 | 0.0% | 29.0% | 2.38 | 0.00 | 21.73 | HR | 06/20/02 | 10.49 | 5074 | | | | | | | | | | |
| MIL X-EQOPRHVY | Outside Equip. Op. Heavy | 15.00 | 0.0% | 60.0% | 3.80 | 0.00 | 27.80 | HR | 06/20/02 | 19.19 | 710 | | | | | | | | | | |
| MIL X-EQOPRLT | Outside Equip. Oper Light | 14.00 | 0.0% | 60.0% | 3.80 | 0.00 | 26.20 | HR | 06/20/02 | 17.05 | 1280 | | | | | | | | | | |
| MIL X-EQOPRMED | Outside Equip. Op. Medium | 14.00 | 0.0% | 60.0% | 3.80 | 0.00 | 26.20 | HR | 06/20/02 | 17.43 | 373 | | | | | | | | | | |
| MIL X-EQOPROIL | Outside Oiler | 10.00 | 0.0% | 60.0% | 3.80 | 0.00 | 19.80 | HR | 06/20/02 | 13.49 | 279 | | | | | | | | | | |
| MIL X-LABORER | Outside Laborer (Semi-Skilled) | 11.00 | 5.0% | 60.0% | 2.35 | 0.00 | 20.83 | HR | 06/20/02 | 11.84 | 572 | | | | | | | | | | |
| MIL X-TRKDVRHV | Outside Truck Dr. Heavy | 14.00 | 0.0% | 29.0% | 2.38 | 0.00 | 20.44 | HR | 06/20/02 | 19.19 | 889 | | | | | | | | | | |

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 ** EQUIPMENT BACKUP **

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 BACKUP PAGE 2

| SRC | ID.NO. | EQUIPMENT DESCRIPTION | DEPR | FCCM | FUEL | FOG | TR WR | TR REP | EQ REP | TOTAL RATE | TOTAL HOURS |
|-----|----------|----------------------------------|--------|-------|-------|-------|-------|--------|--------|------------|-------------|
| UPB | B20CI006 | B-CHIPPER, 16" DIA LOG, TRLR-MTD | 1.38 | 0.32 | 2.16 | 0.51 | 0.03 | | 1.39 | 5.80 HR | 53 |
| MIL | B20VE001 | B-CHIPPER, 6" DIA LOG, TRLR-MTD | 1.63 | 0.47 | 7.30 | 1.91 | 0.04 | 0.00 | 1.58 | 12.93 HR | 2 |
| MIL | B25ES030 | BKT,CLAM, 4.00CY, HVYDTY/SQ NOSE | 3.72 | 1.18 | | | | | 2.75 | 7.65 HR | 70 |
| MIL | C55SC006 | CONC PUMP,117CY/HR, 92'BM,W/TRCK | 30.96 | 8.14 | 12.24 | 2.81 | 0.79 | 0.10 | 31.44 | 86.47 HR | 1 |
| UPB | C65WC002 | CONC VIBRATOR, 2.50D, EL,HI-FREQ | 0.31 | 0.05 | 0.11 | 0.18 | | | 0.82 | 1.47 HR | 2 |
| MIL | C75GV002 | CRANE,HYD,S/P,RT,4WD,20T/70'BOOM | 11.02 | 4.88 | 2.87 | 0.71 | 1.14 | 0.14 | 9.09 | 29.84 HR | 320 |
| UPB | C85AM010 | CR,ME,CWLR,LIFTING, 85T/160'BOOM | 35.91 | 19.51 | 3.05 | 0.55 | | | 31.32 | 90.33 HR | 166 |
| MIL | C85NO002 | CRANE,DRAG/CLAM, 1.25CY/ 50'BOOM | 20.56 | 8.83 | 3.46 | 0.96 | | | 17.93 | 51.74 HR | 233 |
| MIL | G10CA005 | GENERATOR, 250 KW, 240/480V,SKID | 2.65 | 0.84 | 8.61 | 1.69 | | | 1.83 | 15.63 HR | 390 |
| UPB | G10HO004 | GENERATOR, 5.5 KW, 120/240V,PORT | 0.24 | 0.06 | 0.81 | 0.16 | | | 0.14 | 1.41 HR | 1 |
| UPB | H25BA005 | HYD EXCAV, CRWLR, 4.50 CY BKT | 46.69 | 17.41 | 13.21 | 2.38 | | | 55.28 | 134.98 HR | 240 |
| MIL | L10BS002 | MULTI-APPLICATION RAKE, 12.5W 9T | 1.84 | 0.52 | | 0.30 | | | 1.88 | 4.54 HR | 2 |
| MIL | L10BU002 | LANDCLR,ROTRY CUTTR10.5'W,2-12"H | 0.86 | 0.24 | | 1.50 | | | 0.88 | 3.48 HR | 2 |
| UPB | L35CA004 | LDR,FE, CRWLR, 1.50 CY | 8.81 | 3.06 | 2.03 | 0.63 | | | 13.44 | 27.96 HR | 480 |
| UPB | L35CA007 | LDR,FE, CRWLR, 3.75 CY | 23.51 | 8.16 | 5.32 | 1.66 | | | 35.89 | 74.54 HR | 53 |
| UPB | L40CA006 | LDR,FE, WH, 4.50 CY, ARTIC, 966E | 17.21 | 6.98 | 5.05 | 1.74 | 4.20 | 0.52 | 14.31 | 50.00 HR | 220 |
| UPB | L40CA008 | LDR,FE, WH, 7.00 CY, ARTIC, 988B | 31.88 | 12.67 | 8.78 | 2.16 | 7.06 | 0.87 | 23.26 | 86.67 HR | 222 |
| UPB | L50CA003 | LDR,BH,WH, 1.38CY FE BKT, 30"DIP | 5.62 | 2.21 | 1.80 | 0.47 | 0.48 | 0.06 | 5.29 | 15.93 HR | 161 |
| MIL | M10MZ009 | WORK BARGE-S,MED DUTY,60'X16'X5' | 2.75 | 0.79 | | | | | 1.65 | 5.18 HR | 440 |
| MIL | M10MZ013 | WORKBOAT,TRKABLE,25.25'X14'X4.5' | 4.15 | 1.55 | 4.91 | 1.53 | | | 3.08 | 15.22 HR | 440 |
| MIL | M10SM011 | LAUNCH,20.25',TRANSPORTR,3500# | 2.36 | 0.88 | 14.74 | 3.87 | | | 2.00 | 23.85 HR | 70 |
| UPB | P30MK003 | PILE HAMMER,VIB,116T FORCE DRIVE | 21.37 | 6.28 | 8.19 | 2.15 | | | 28.92 | 66.91 HR | 166 |
| UPB | P55GR004 | PUMP,SUBM, 6"D,1950GPM/40'HD, EL | 1.05 | 0.40 | 4.59 | 1.69 | | | 0.72 | 8.46 HR | 1 |
| MIL | P60GF005 | PUMP,CENTRF,DW,10"D,3410GPM/60'H | 2.38 | 0.75 | 2.70 | 0.84 | 0.04 | 0.00 | 2.46 | 9.17 HR | 400 |
| UPB | R10CA011 | RIPPER, 1-SHANK BEAM,HYD, D-8 | 3.25 | 0.92 | | 0.10 | | | 3.33 | 7.60 HR | 1 |
| UPB | R10CA013 | RIPPER, SHANKS EACH, D-8 | 0.28 | 0.08 | | | | | 0.29 | 0.66 HR | 1 |
| UPB | S15CA001 | SCRAPER,SELF, 14-20CY, 24T, PS | 29.91 | 10.01 | 7.08 | 1.86 | 6.56 | 0.81 | 20.56 | 76.78 HR | 160 |
| UPB | T10CA010 | BLADE, ANGLE, HYDR, D-6 | 1.73 | 0.60 | | 0.08 | | | 1.58 | 3.98 HR | 766 |
| MIL | T10CA011 | WINCH, (ADD CABLE), D-6 | 2.24 | 0.78 | | 0.08 | | | 2.05 | 5.15 HR | 1 |
| UPB | T10CA017 | BLADE, UNIVERSAL, HYDR, D-8 | 3.17 | 1.10 | | 0.13 | | | 2.90 | 7.30 HR | 28 |
| MIL | T15CA008 | DOZER,CWLR, D-6D,PS | 9.14 | 3.49 | 3.55 | 1.05 | | | 13.35 | 30.59 HR | 1 |
| UPB | T15CA010 | DOZER,CWLR, D-6H,PS | 11.58 | 4.42 | 4.18 | 1.23 | | | 16.90 | 38.32 HR | 764 |
| MIL | T15CA015 | DOZER,CWLR, D-8L,PS | 27.07 | 9.39 | 8.49 | 1.95 | | | 30.89 | 77.79 HR | 28 |
| MIL | T25JD002 | TRACTOR,WH,FARM, 60-65HP, 2WD | 1.95 | 0.54 | 1.50 | 0.34 | 0.37 | 0.05 | 1.41 | 6.16 HR | 2 |
| UPB | T30VE003 | TRENCHR,CHN, 60"DP,6-18"W,BH&BLD | 4.17 | 1.23 | 1.26 | 0.29 | 0.25 | 0.03 | 4.10 | 11.33 HR | 0 |
| UPB | T40XX003 | HYDR CRANE 8.0T,W/ 85'BOOM | 5.44 | 1.55 | | 0.25 | | | 4.69 | 11.92 HR | 117 |
| UPB | T40XX008 | REAR DUMP BODY, 8.0CY | 1.20 | 0.34 | | 0.09 | | | 0.91 | 2.54 HR | 141 |
| UPB | T40XX010 | REAR DUMP BODY, 12.0CY | 1.23 | 0.35 | | 0.09 | | | 0.93 | 2.61 HR | 4931 |
| MIL | T40XX016 | FLATBED, 8'x 16.0' | 0.34 | 0.10 | | 0.22 | | | 0.22 | 0.65 HR | 117 |
| UPB | T40XX033 | WATER TANK, 3000 GAL | 1.65 | 0.47 | | 1.07 | | | 1.07 | 3.18 HR | 2 |
| UPB | T45XX003 | TRLR,BOTTM DUMP,30CY,30T | 3.02 | 1.04 | | 0.40 | 0.65 | 0.08 | 2.17 | 7.36 HR | 222 |
| MIL | T50FO001 | TRK,HWY, 4,900GVW,4X2, 1/2T-PKUP | 1.54 | 0.44 | 2.06 | 0.47 | 0.19 | 0.02 | 1.34 | 6.07 HR | 1600 |
| UPB | T50FO003 | TRK,HWY, 8,600GVW,4X2, 3/4T-PKUP | 1.70 | 0.49 | 2.06 | 0.47 | 0.19 | 0.02 | 1.48 | 6.41 HR | 1646 |
| UPB | T50FO004 | TRK,HWY, 8,800GVW,4X4, 3/4T-PKUP | 2.06 | 0.59 | 2.41 | 0.55 | 0.23 | 0.03 | 1.78 | 7.64 HR | 1 |
| MIL | T50KE003 | TRK,HWY, 46,000 GVW, 6X4, 3 AXLE | 9.59 | 2.76 | 8.01 | 1.84 | 0.44 | 0.05 | 7.20 | 29.89 HR | 5413 |
| UPB | T55EU001 | TRK,OFF-HWY,R-DUMP, 14-19CY, 25T | 15.96 | 5.03 | 4.00 | 1.14 | 3.26 | 0.41 | 10.10 | 39.90 HR | 667 |
| UPB | W35XX002 | WELDER, 200 AMP, W/1 AXLE TRLR | 0.50 | 0.18 | 3.56 | 0.70 | 0.03 | 0.00 | 0.46 | 5.44 HR | 7 |
| UPB | XMIXX010 | MISC. POWER TOOLS | 2.17 | 0.76 | 0.60 | 0.27 | | | 2.60 | 6.40 HR | 776 |
| UPB | XMIXX020 | SMALL TOOLS | 0.50 | 0.22 | 0.16 | 0.07 | | | 0.63 | 1.57 HR | 4277 |
| USR | XMIXX999 | FLOATING SILT BOOM & CURTAIN | 1.50 | 0.07 | | | | | | 1.57 HR | 390 |
| UPB | XX0XX003 | FLOATING CRANE, 350T, 140FT BOOM | 125.85 | 44.89 | 35.51 | 15.50 | | | 155.20 | 376.96 HR | 390 |

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SETTINGS PAGE 1

** PROJECT SETTINGS **

ESTIMATE TYPE : A-Crews with Auto Reprice

SALES TAX : 7.00%

DATE OF ESCALATION SCHEDULE : 12/03/02

PROJECT DIRECT COST COLUMNS

| | | | | | |
|-----------|--------|-------|----------|----------|-------|
| Col Type | H | L | E | M | U |
| Rep Width | 8 | 9 | 9 | 9 | 8 |
| Title | MANHRS | LABOR | EQUIPMNT | MATERIAL | OTHER |

PROJECT INDIRECT COST COLUMNS

| | | | | | |
|-----------|----------|----------|--------|----------|----------|
| Col Type | O | U | P | B | X |
| Rep Width | 12 | 12 | 12 | 12 | 0 |
| Title | OVERHEAD | HOME OFC | PROFIT | BOND/INS | (Unused) |

PROJECT OWNER COST COLUMNS

| | | | | | |
|-----------|----------|----------|------|----------|----------|
| Col Type | E | C | U | X | X |
| Rep Width | 12 | 12 | 12 | 0 | 0 |
| Title | ESCALATN | CONTINGN | SIOH | (Unused) | (Unused) |

PROJECT BREAKDOWN

| PROJECT ID | Length | Trail Sep | Level Title | 2nd View Order |
|--------------|--------|-----------|-------------|----------------|
| Level 1 ID : | 2 | . | Contract | 1 |
| Level 2 ID : | 2 | . | Feature | 2 |
| Level 3 ID : | 2 | . | Sub-Feat | 3 |
| Level 4 ID : | 2 | . | Element | 0 |
| Level 5 ID : | 2 | . | Level 5 | 0 |
| Level 6 ID : | 2 | . | Level 6 | 0 |

Owner Cost Level : 0

** PROJECT SETTINGS **

2ND VIEW COLUMNS

Quantity Column Width : 10

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Col Type | X | X | X | X | X |
| Rep Width | 0 | 0 | 0 | 0 | 0 |
| Title | (Unused) | (Unused) | (Unused) | (Unused) | (Unused) |

| | | | | | |
|--------|---|---|---|---|---|
| Shadow | X | X | X | X | X |
|--------|---|---|---|---|---|

DETAIL REPORT FORMATTING

PAGE OPTIONS Page Break Levels : 2
 Table of Contents Levels : 4

0 1 2 3 4 5 6 7

ROW OPTIONS Print Titles at Levels : Y N N Y N N
 Print Totals at Levels : Y N N Y N N
 Print Notes at Levels : Y Y Y Y Y Y Y
 Print Unit Cost Row : Y
 Print Page Footer : Y
 Show Cost Codes : Y

COLUMNS OPTIONS Print Crew Id : Y
 Crew Output : Y
 Unit Cost : Y

UPB TITLES No. of Levels to Print : 0
 Bracket Titles With : N N
 Include titles Notes : N

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** PROJECT SETTINGS **

OTHER REPORT FORMATTING

COLUMN TITLES FOR SUMMARY REPORTS

Column 1 OVERHEAD : OVERHEAD
Column 2 HOME OFC : HOME OFC
Column 3 PROFIT : PROFIT
Column 4 BOND/INS : BONDS & INSURANCE
Column 5 (Unused) : (Unused)

Column 1 ESCALATN : ESCALATION
Column 2 CONTINGN : CONTINGENCY
Column 3 SIOH : SUPERVISION, INSPECTION AND OVERHEAD
Column 4 (Unused) :
Column 5 (Unused) :

STANDARD COLUMN WIDTHS

SUMMARY FEATURES

Quantity Columns : 10 Round Totals Column : H-Hundreds
Total cost Columns : 12 Contingency Notes : No
Unit Cost Columns : 10 Show Project Totals : No

SPECIAL REPORT FORMATTING OPTIONS

First Alternate ID : (None)
Show Markup at Level : 0
Display Indirect/Owner Markup as : B - Percent of Total
CSI Sort at Level : (None)

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** PROJECT SETTINGS **

REPORT SELECTION

Project Settings : Y Profit Guidelines : N
Contractor Settings : Y
Link Listing : N Measurement Units : U.S.

REPORT FORMAT TYPE FOR LEVEL (S)

Direct Indirect Owner 0 1 2 3 4 5 6

Detail : Y
Project : Y Y Y Y N N
Contractor : N N N N N N N N
Division : N N N N N N N N
System : N N N N N N N N
2nd View : N

Crew : N Y N N N N N N
Labor : Y
Equipment : Y
Prime Labor Cost Level : N

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** OWNER, OVERTIME, AND ADJUSTMENTS SETTINGS **

| | | *****ESCALATN DATE***** | | *****ESCALATN INDEX***** | | | |
|--------------------------------------|---|-------------------------|---------|--------------------------|-------|---------|---------|
| | | AMOUNT | PERCENT | BEGIN | END | BEGIN | END |
| ----- | | | | | | | |
| Project Information Record | | | | | | | |
| ESCALATION | C | 4.80 | | 11/02 | 07/04 | 515.150 | 539.880 |
| CONTINGENCY | P | 25.00 | | | | | |
| SUPERVISION, INSPECTION AND OVERHEAD | P | 5.75 | | | | | |

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SETTINGS PAGE 6

** CONTRACTOR SETTINGS **

AMOUNT PCT PCT S RISK DIFF SIZE PERIOD INVEST ASSIST SUBCON

AA Prime Marine Contractor

| | | | | | | | | | | | |
|-------------------|---|--|--|--|--|--|--|--|--|--|-------|
| OVERHEAD | C | | | | | | | | | | |
| HOME OFC | P | | | | | | | | | | |
| PROFIT | P | | | | | | | | | | 3.00 |
| BONDS & INSURANCE | P | | | | | | | | | | 10.20 |
| | | | | | | | | | | | 2.80 |

Mon 02 Dec 2002
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ERROR REPORT

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ERROR PAGE 1

No errors detected...

* * * END OF ERROR REPORT * * *

VI Cost Estimate

A. Material Quantity Estimate

Listed below is an estimate of major quantities necessary to construct the NSBL&D Fish Bypass System:

| Item | Description | Units | Quantity |
|------------|---|-------|----------|
| A | Site Prep & Temporary Works | | |
| | Access Roads — SEE OVERHEAD — HOW MANY AS | LM | TBD |
| | Barge Unloading Facility — 1 EA SIDE — | LS | 1 ✓ |
| | Temporary Cofferdams | | |
| | Filter Fabric | SY | 2100 |
| | Riprap | CY | 710 |
| | Earthwork | CY | 35000 |
| | Utilities | LS | 1 ✓ |
| | Construction Power | LS | 1 ✓ |
| | Water Control — PUMP — | LS | 1 ✓ |
| | Site Laydown Area — IN EXIST. | LS | 1 ✓ |
| | Temporary Fencing 700' | LF | 1400 ✓ |
| | Erosion Control 1600 LF | LS | 1 ✓ |
| B | Civil Works | | |
| B.1 | Earth Work & Drainage | | |
| | Clearing & Grubbing | Acre | 4 ✓ |
| | Earthwork | | |
| | Excavation | CY | 53000 |
| | Disposal | CY | 58000 ✓ |
| | Filter Fabric 12,844 SY — | See | 11000 |
| | Riprap | CY | 7400 |
| | Boulders | EA | 500 |
| | Rough Grading | Acre | 4 |
| | Fine Grading — SEE PLAN | Acre | 4 |
| | Canal Access Concrete Paving 1300 SF | CY | 56 |
| B.2 | Headwater Structure | | |
| | Sheet Piling | EA | 5250 |
| | Concrete | CY | 450 |
| | Reinforcing | Ton | 15 |
| | Miscellaneous Steel | | |
| | Handrail | LF | 230 ✓ |
| | Grating | Ton | 1 |
| | Miscellaneous Steel Embeds WITH GATES → | Ton | 1 |
| | Slide Gates w/Operators | EA | 8 |
| | Stop Logs | EA | 1 |
| B.3 | General | | |
| | Landscaping LS BELOW — | LS | 1 ✓ |
| | Fencing | LF | 1400 ✓ |
| | Access — VIA BARGE | LF | TBD |
| C | Electrical Works | LS | TBD |
| D | Mechanical Works | NA | NA |

TM



FAX COVER SHEET

DATE 11/25/02

TOTAL PAGES 2

TO Mr. James Walters

FROM Wayne Ewing
RINKER MATERIALS - DOGWOOD
5868 COLUMBIA ROAD
GROVETOWN, GA 30813

PHONE 850-897-5380

PHONE (706) 541-0187

FAX 850-897-5388

FAX (706) 541-9161

REMARKS:
Mr. Walters,
Conversion factor for both
Type T and armor is about the
same at 1.5 tons / cubic yrd.
Please call if you have any questions
Thank you
Wayne Ewing

Rinker

MATERIALS™

Southern Aggregates
5868 Columbia Road
Grovetown, GA 30813

Quote Sheet

Customer Name: Titan Corp. Date: 11/25/02
Telephone: 850-897-5380 Contact: Mr. James Walters
Job Name: New Savannah Bluff/Gish Ladder Job No.
P.O. No. County Job In: Richmond County

| Approximate Quantity | Material Description | FOB Plant | FOB Delivered Tandem | FOB Delivered Trailer |
|----------------------|------------------------------|-------------------|----------------------|-----------------------|
| <u>Requirements</u> | | | | |
| <u>11,200T</u> | <u>GA DOT - Typo Rip Pop</u> | <u># 12.50/ft</u> | | <u># 18.50/ft</u> ✓ |
| <u>208 pcs</u> | <u>4' Dia ± Armor</u> | <u># 16.00/ft</u> | | <u># 28.00/ft</u> ✓ |
| <u>312 pcs</u> | <u>5' Dia ± Armor Stone</u> | <u># 16.00/ft</u> | | <u># 28.00/ft</u> ✓ |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Above Prices Do Not Include Applicable Sales Tax (es).

Approximate Date For Job to Begin: _____

Comments: _____

Wayne Ewing
Wayne Ewing
Division Sales Manager
706-541-0187



P.O. Box 2508 • Augusta, Georgia 30903-2508 • (706) 724-0860 • FAX (706) 724-0340

DATE: November 22, 2002

TO: James Walters
TITAN CORPORATION
FAX# 850-897-5388

RE: Savannah Bluff Dam

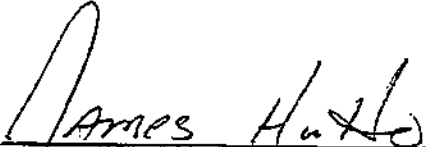
We are pleased to quote the following prices for the described material(s) F.O.B. to the above job site during normal operating hours, Monday through Friday.

| <u>DESCRIPTION</u> | <u>PSI</u> | <u>PRICE PER CUBIC YARD</u> |
|--------------------|------------|-----------------------------|
| Mix No. 3000 | 3000 | \$53.25 |
| Mix No. 4000 | 4000 | \$56.75 |

TERMS: \$1.00 per cubic yard discount for payment by the 10th prox. of the month following delivery, net 30 days. Prices do not include sales tax. Prices are firm through April 2004.

SPECIAL REQUIREMENTS:

THANK YOU FOR THIS OPPORTUNITY OF QUOTING.

BY: 
James Hutto, Sales Manager

4343 Shallowford Road
Suite H2
Marietta, GA 30062
don@southernwater.com

Southern Water Technologies

Fax

| | |
|-------------------------------|------------------|
| To: Mr. James Walters | From: Don Shoaf |
| CO: Titan Corporation | Pages: 3 |
| Fax: 850-897-5388 | Date: 11/22/2002 |
| Re: Savannah Bluff Lock & Dam | CC: |

Urgent For Review Please Comment Please Reply Please Recycle

James,

Thank you for your patience in regard to the above from Whipps, Inc. The following is the budget quote that you requested for the Corps of Engineering project. This includes eight series 806 slide gates with manual operators, eight stop log grooves or tracks and one set of stop logs, and the portable operator. I guess the thought on item 2 was that there would probably only be a need to close one channel at a time with the stop logs, thus only one set of logs and frames/grooves for each of the eight channels. If this does not meet with your requirements, please let me know and we'll put together a price for the additional 7 sets.

Thanks again, and feel free to call me with any additional questions.

BUDGET PROPOSAL

Whipps, inc.

P.O. Box 1058 • 370 South Athol Rd.
Athol, Massachusetts 01331
Phone: (978) 249-7924
Fax: (978) 249-3072

November 21, 2002

PLEASE REPLY TO:

Southern Water Technologies, Inc.
4343 Shallowford Road
Bldg. H, Suite 2
Marietta, GA 30062 USA
Voice: 770-993-4392
Fax: 770-998-2430

Titan Corporation
1501 Merchants Way
Niceville, FL 32578
Attn: James Walters

Subject: New Savannah Bluff Lock & Dam
Augusta, GA
Proposal: Whipps No. 2463

Gentleman:

We are pleased to offer the following proposal for the Slide Gates and Stop Logs on the project referenced above. The equipment we propose to supply is as follows:

Item # 1

Eight (8) 84" x 96"

Series 806

The Embedded Aluminum Slide Gate will have the following features: aluminum (alloy 6061-T6) construction; UHMW seat/seals; and neoprene seal on the invert of the opening. The frame is designed to be embedded in concrete. The actuator will be a yoke mounted manual operator with a type 304 SS operating stem and clear plastic stem cover.

Estimated Shipping Weight = 699# each

Estimated Price Each = \$6,099.00

Price for (8) Eight = \$48,792.00

Item # 2.

One (1) 84" x 96"

Series 509

Assembly will consist of the following

| | |
|----------------------------|----------------------|
| Eight (8) Stop Logs, | 84" wide x 12" high |
| Eight (8) Stop Log Groove, | 84" wide x 144" high |
| One (1) Lifter | 84" wide |

Stop Logs: Extruded Alum. Logs will be 12" high each. Manufactured from 6061-T6 Alum. A specially shaped urethane seal will be attached to the bottom and ends of the log to reduce leakage.

Grooves: Fabricated from Aluminum shapes, embedded frame design. The invert of the frame will be a fabricated channel shape manufactured in 6061-T6 Alum, designed to form a seal surface for the bottom log.

Lifter: The lifting device will come complete with suitable connecting points for crane operation and will be capable of securing and releasing the logs with the use of a lanyard.

Estimated Price for one (1) Complete Assy: \$11,405.00

WATER CONTROL GATES & EQUIPMENT

Whipps, Inc. Proposal # 2463

Item # 3.**One (1) Drill- Type Portable Operator**

The Operator will be a heavy duty electric drill with double pole trigger, reversing switch for full power in forward or reverse. The hold down trigger switch shuts off unit when released. The P-O will be tripod mounted portable electric drill, 115 volt single phase power source. The PO will have factory set, quick release, automatic overload release clutch.

Estimated Price for one (1) Complete Assy: \$3,169.00

This proposal represents our best interpretation of the project plans. Any subsequent revisions may result in a price change.

DURATION: Our price is held firm for 60 days from the Proposal date. Please contact our local representative for updated pricing after 60 days.

TERMS: Payment terms are net 30 days with no retainer allowance. Interest will be charged on amounts past due at 1-1/2% per month.

TAXES: Tax and/or Use Taxes are not included in this proposal and should not be included in any subsequent purchase order.

DELIVERIES: The standard delivery of submittal drawings is 4-5 weeks after receipt of written purchase order. The aluminum slide gates and stop logs will ship 12-14 weeks after receipt of approved submittal drawings. We will make every possible effort to coordinate our engineering and manufacturing schedule with your construction schedule. Please contact our local representative for expedited or extended delivery dates.

FREIGHT: The price quoted is F.O.B. our factory in Athol, MA with freight allowed to job site. Partial shipments may be provided upon request for an additional charge. Price includes shipment via common carrier with box trailer. Open top truck shipment may be provided upon request for an additional charge. Price does not include unloading at job site.

Please let us know if we can be of further service.

Sincerely,

Fred Perry

Fred Perry
Regional Sales Manager
Whipps, Inc.

VOLUME DISCOUNT DISCLAIMER: The prices shown reflect a volume discount for the total number of gates quoted. Please call if you need to order fewer than the number shown above and we will send a revised proposal.

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| CWBS - FEATURE CODES | Wt % | 1Q02 | | 2Q02* | | 3Q02* | | 4Q02* | | 1Q03* | | 2Q03* | | 3Q03* | | 4Q03* | |
|--|------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--|-------|--|
| | | 2001 (Oct - Dec) | 2002 (Jan - Mar) | 2002 (Jan - Mar) | 2002 (Apr - Jun) | 2002 (Jul - Sep) | 2002 (Oct - Dec) | 2003 (Jan - Mar) | 2003 (Apr - Jun) | 2003 (Jul - Sep) | 2002 (Oct - Dec) | 2003 (Jan - Mar) | 2003 (Apr - Jun) | 2003 (Jul - Sep) | | | |
| 02 RELOCATIONS | 5% | 520.18 | 525.38 | 528.94 | 532.49 | 535.49 | 539.14 | 542.79 | 546.45 | 535.49 | 539.14 | 542.79 | 546.45 | | | | |
| 03 RESERVOIRS | 5% | 578.44 | 581.45 | 585.39 | 589.33 | 593.34 | 597.39 | 601.44 | 605.48 | 593.34 | 597.39 | 601.44 | 605.48 | | | | |
| 04 DAMS | 15% | 509.60 | 515.82 | 519.32 | 522.81 | 525.47 | 529.05 | 532.63 | 536.22 | 525.47 | 529.05 | 532.63 | 536.22 | | | | |
| 05 LOCKS | 2% | 500.87 | 507.09 | 510.53 | 513.96 | 516.55 | 520.07 | 523.59 | 527.11 | 516.55 | 520.07 | 523.59 | 527.11 | | | | |
| 06 FISH & WILDLIFE FACILITIES | 5% | 499.61 | 505.69 | 509.11 | 512.54 | 515.15 | 518.66 | 522.17 | 525.69 | 515.15 | 518.66 | 522.17 | 525.69 | | | | |
| 07 POWER PLANT | 10% | 483.76 | 490.92 | 494.25 | 497.57 | 499.79 | 503.20 | 506.60 | 510.01 | 499.79 | 503.20 | 506.60 | 510.01 | | | | |
| 08 ROADS, RAILROADS & BRIDGES | 10% | 520.18 | 525.38 | 528.94 | 532.49 | 535.49 | 539.14 | 542.79 | 546.45 | 535.49 | 539.14 | 542.79 | 546.45 | | | | |
| 09 CHANNELS & CANALS | 3% | 543.03 | 548.64 | 552.36 | 556.07 | 559.16 | 562.97 | 566.78 | 570.60 | 559.16 | 562.97 | 566.78 | 570.60 | | | | |
| 10 BREAKWATER & SEAWALLS | 5% | 539.17 | 547.26 | 550.97 | 554.67 | 557.12 | 560.91 | 564.71 | 568.51 | 557.12 | 560.91 | 564.71 | 568.51 | | | | |
| 11 LEVEES & FLOODWALLS | 5% | 523.55 | 530.87 | 534.46 | 538.06 | 540.56 | 544.25 | 547.93 | 551.62 | 540.56 | 544.25 | 547.93 | 551.62 | | | | |
| 12 NAVIGATION PORTS & HARBORS | 10% | 491.52 | 516.72 | 520.22 | 523.72 | 521.56 | 525.12 | 528.68 | 532.23 | 521.56 | 525.12 | 528.68 | 532.23 | | | | |
| 13 PUMPING PLANT | 5% | 476.24 | 483.29 | 486.57 | 489.84 | 492.02 | 495.37 | 498.73 | 502.08 | 492.02 | 495.37 | 498.73 | 502.08 | | | | |
| 14 RECREATION FACILITIES | 5% | 476.24 | 483.29 | 486.57 | 489.84 | 492.02 | 495.37 | 498.73 | 502.08 | 492.02 | 495.37 | 498.73 | 502.08 | | | | |
| 15 FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 499.61 | 505.69 | 509.11 | 512.54 | 515.15 | 518.66 | 522.17 | 525.69 | 515.15 | 518.66 | 522.17 | 525.69 | | | | |
| 16 BANK STABILIZATION | 2% | 519.26 | 525.07 | 528.63 | 532.19 | 535.02 | 538.67 | 542.32 | 545.97 | 535.02 | 538.67 | 542.32 | 545.97 | | | | |
| 17 BEACH REPLENISHMENT | 2% | 550.29 | 556.00 | 559.76 | 563.53 | 566.65 | 570.51 | 574.38 | 578.24 | 566.65 | 570.51 | 574.38 | 578.24 | | | | |
| 18 CULTURAL RESOURCE PRESERVATION | 2% | 476.24 | 483.29 | 486.57 | 489.84 | 492.02 | 495.37 | 498.73 | 502.08 | 492.02 | 495.37 | 498.73 | 502.08 | | | | |
| 19 BUILDINGS, GROUNDS & UTILITIES | 5% | 476.24 | 483.29 | 486.57 | 489.84 | 492.02 | 495.37 | 498.73 | 502.08 | 492.02 | 495.37 | 498.73 | 502.08 | | | | |
| 20 PERMANENT OPERATING EQUIPMENT | 2% | 476.24 | 483.29 | 486.57 | 489.84 | 492.02 | 495.37 | 498.73 | 502.08 | 492.02 | 495.37 | 498.73 | 502.08 | | | | |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | 100% | 507.21 | 515.37 | 518.86 | 522.35 | 524.51 | 528.09 | 531.67 | 535.24 | 524.51 | 528.09 | 531.67 | 535.24 | | | | |

Note: FY* indicates data developed based on OMB projections.

[1st QTR = 2 OCT THRU 31 DEC/1 JAN] [2nd QTR = 2 JAN THRU 31 MAR/1 APR] [3rd QTR = 2 APR THRU 30 JUN/1 JUL] [4th QTR = 2 JUL THRU 30 SEPT/1 OCT]

TABLE A-1, QUARTERLY COST INDEXES BY CWBS FEATURE CODE
Base Year 1967 = 100

| CWBS - FEATURE CODES | Wt % | 2003 | | 2004 | | 2004 | | 2004 | | 2005 | | 2005 | | 2005 | | | |
|---|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 1Q04* | 2Q04* | 3Q04* | 4Q04* | 1Q05* | 2Q05* | 3Q05* | 4Q05* | 1Q05* | 2Q05* | 3Q05* | 4Q05* | | | | |
| | | (Oct - Dec) | (Jan - Mar) | (Apr - Jun) | (Jul - Sep) | (Oct - Dec) | (Jan - Mar) | (Apr - Jun) | (Jul - Sep) | (Oct - Dec) | (Jan - Mar) | (Apr - Jun) | (Jul - Sep) | (Oct - Dec) | (Jan - Mar) | (Apr - Jun) | (Jul - Sep) |
| 02 RELOCATIONS | 5% | 549.95 | 553.70 | 557.45 | 561.20 | 564.80 | 568.65 | 572.50 | 576.35 | 564.80 | 568.65 | 572.50 | 576.35 | 564.80 | 568.65 | 572.50 | 576.35 |
| 03 RESERVOIRS | 5% | 609.36 | 613.52 | 617.67 | 621.83 | 625.82 | 630.08 | 634.35 | 638.62 | 625.82 | 630.08 | 634.35 | 638.62 | 625.82 | 630.08 | 634.35 | 638.62 |
| 04 DAMS | 15% | 539.66 | 543.34 | 547.02 | 550.70 | 554.23 | 558.01 | 561.79 | 565.56 | 554.23 | 558.01 | 561.79 | 565.56 | 554.23 | 558.01 | 561.79 | 565.56 |
| 05 LOCKS | 2% | 530.49 | 534.11 | 537.73 | 541.35 | 544.82 | 548.53 | 552.25 | 555.96 | 544.82 | 548.53 | 552.25 | 555.96 | 544.82 | 548.53 | 552.25 | 555.96 |
| 06 FISH & WILDLIFE FACILITIES | 5% | 529.06 | 532.67 | 536.27 | 539.88 | 543.34 | 547.05 | 550.75 | 554.46 | 543.34 | 547.05 | 550.75 | 554.46 | 543.34 | 547.05 | 550.75 | 554.46 |
| 07 POWER PLANT | 10% | 513.28 | 516.78 | 520.28 | 523.78 | 527.14 | 530.73 | 534.33 | 537.92 | 527.14 | 530.73 | 534.33 | 537.92 | 527.14 | 530.73 | 534.33 | 537.92 |
| 08 ROADS, RAILROADS & BRIDGES | 10% | 549.95 | 553.70 | 557.45 | 561.20 | 564.80 | 568.65 | 572.50 | 576.35 | 564.80 | 568.65 | 572.50 | 576.35 | 564.80 | 568.65 | 572.50 | 576.35 |
| 09 CHANNELS & CANALS | 3% | 574.25 | 578.17 | 582.09 | 586.00 | 589.76 | 593.78 | 597.80 | 601.82 | 589.76 | 593.78 | 597.80 | 601.82 | 589.76 | 593.78 | 597.80 | 601.82 |
| 10 BREAKWATER & SEAWALLS | 5% | 572.16 | 576.06 | 579.96 | 583.86 | 587.61 | 591.61 | 595.62 | 599.63 | 587.61 | 591.61 | 595.62 | 599.63 | 587.61 | 591.61 | 595.62 | 599.63 |
| 11 LEVEES & FLOODWALLS | 5% | 555.16 | 558.94 | 562.73 | 566.51 | 570.15 | 574.03 | 577.92 | 581.81 | 570.15 | 574.03 | 577.92 | 581.81 | 570.15 | 574.03 | 577.92 | 581.81 |
| 12 NAVIGATION PORTS & HARBORS | 10% | 535.64 | 539.30 | 542.95 | 546.60 | 550.11 | 553.86 | 557.61 | 561.36 | 550.11 | 553.86 | 557.61 | 561.36 | 550.11 | 553.86 | 557.61 | 561.36 |
| 13 PUMPING PLANT | 5% | 505.30 | 508.75 | 512.19 | 515.64 | 518.95 | 522.49 | 526.02 | 529.56 | 518.95 | 522.49 | 526.02 | 529.56 | 518.95 | 522.49 | 526.02 | 529.56 |
| 14 RECREATION FACILITIES | 5% | 505.30 | 508.75 | 512.19 | 515.64 | 518.95 | 522.49 | 526.02 | 529.56 | 518.95 | 522.49 | 526.02 | 529.56 | 518.95 | 522.49 | 526.02 | 529.56 |
| 15 FLOODWAY CONTROL & DIVERSION STRUCTURE | 2% | 529.06 | 532.67 | 536.27 | 539.88 | 543.34 | 547.05 | 550.75 | 554.46 | 543.34 | 547.05 | 550.75 | 554.46 | 543.34 | 547.05 | 550.75 | 554.46 |
| 16 BANK STABILIZATION | 2% | 549.47 | 553.22 | 556.96 | 560.71 | 564.31 | 568.15 | 572.00 | 575.85 | 564.31 | 568.15 | 572.00 | 575.85 | 564.31 | 568.15 | 572.00 | 575.85 |
| 17 BEACH REPLENISHMENT | 2% | 581.95 | 585.92 | 589.88 | 593.85 | 597.66 | 601.74 | 605.81 | 609.89 | 597.66 | 601.74 | 605.81 | 609.89 | 597.66 | 601.74 | 605.81 | 609.89 |
| 18 CULTURAL RESOURCE PRESERVATION | 2% | 505.30 | 508.75 | 512.19 | 515.64 | 518.95 | 522.49 | 526.02 | 529.56 | 518.95 | 522.49 | 526.02 | 529.56 | 518.95 | 522.49 | 526.02 | 529.56 |
| 19 BUILDINGS, GROUNDS & UTILITIES | 5% | 505.30 | 508.75 | 512.19 | 515.64 | 518.95 | 522.49 | 526.02 | 529.56 | 518.95 | 522.49 | 526.02 | 529.56 | 518.95 | 522.49 | 526.02 | 529.56 |
| 20 PERMANENT OPERATING EQUIPMENT | 2% | 505.30 | 508.75 | 512.19 | 515.64 | 518.95 | 522.49 | 526.02 | 529.56 | 518.95 | 522.49 | 526.02 | 529.56 | 518.95 | 522.49 | 526.02 | 529.56 |
| COMPOSITE INDEX (WEIGHTED AVERAGE) | 100% | 538.68 | 542.35 | 546.02 | 549.69 | 553.22 | 556.99 | 560.76 | 564.54 | 553.22 | 556.99 | 560.76 | 564.54 | 553.22 | 556.99 | 560.76 | 564.54 |

Note: FY* indicates data developed based on OMB projections.

[1st QTR = 2 OCT THRU 31 DEC | 1 JAN] [2nd QTR = 2 JAN THRU 31 MAR | 1 APR] [3rd QTR = 2 APR THRU 30 JUN | 1 JUL] [4th QTR = 2 JUL THRU 30 SEPT | 1 OCT]