**COST ESTIMATE FOR:**
**BROWNS VALLEY FLOOD MITIGATION PROJECT**
**FLOODWAY OPTION 1A-PASSIVE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 1.0 RIGHT OF WAY** | | | | |
| 1 | RIGHT OF WAY - PERMANENT-INCL. NEW CR 24 | Acre | 83.3 | 3,000.00 | 249,900.00 |
| 2 | RIGHT OF WAY - TEMPORARY | Acre | 13.7 | 300.00 | 4,110.00 |
| **T** | **SCHEDULE 1.0 RIGHT OF WAY -- TOTAL** | | | | **$254,010.00** |
| | **SCHEDULE 2.0 FLOODWAY** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 40,000.00 | 40,000.00 |
| 2 | CLEARING AND GRUBBING | Acre | 4 | 3,000.00 | 12,000.00 |
| 3 | STRIPPING | Cu. Yd. | 64000 | 1.15 | 73,600.00 |
| 4 | TOPSOIL | Cu. Yd. | 42000 | 1.30 | 54,600.00 |
| 5 | COMMON EXCAVATION | Cu. Yd. | 350000 | 2.25 | 787,500.00 |
| 6 | 48"X78" CULVERT, CSP ARCH | Lin. Ft. | 100 | 60.00 | 6,000.00 |
| 7 | 18" SIDE INLET CULVERTS, CSP | Lin. Ft. | 2678 | 20.00 | 53,560.00 |
| 8 | APRON, 48"X78", CSP ARCH | Each | 2 | 3,000.00 | 6,000.00 |
| 9 | 18" APRONS, CSP | Each | 12 | 150.00 | 1,800.00 |
| 10 | 18" FLAPGATES | Each | 9 | 1,000.00 | 9,000.00 |
| 11 | RIPRAP, FOR LOW FLOW CHANNEL | Cu. Yd. | 4276 | 30.00 | 128,280.00 |
| 12 | RIPRAP, CL 3 | Cu. Yd. | 378 | 50.00 | 18,900.00 |
| 13 | RIPRAP AT OUTLET | Cu. Yd. | 400 | 50.00 | 20,000.00 |
| 14 | TRAFFIC CONTROL | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 15 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 1000 | 2.00 | 2,000.00 |
| 16 | FLOTATION SILT CURTAIN TYPE MOVING WATER | Lin. Ft. | 300 | 20.00 | 6,000.00 |
| 17 | TEMPORARY DITCH CHECK | Lin. Ft. | 500 | 5.00 | 2,500.00 |
| 18 | SEEDING | Acre | 210 | 80.00 | 16,800.00 |
| 19 | SEED MIXTURE 100 SERIES | Lb. | 10500 | 2.00 | 21,000.00 |
| 20 | SEED MIXTURE 200 SERIES | Lb. | 10500 | 2.50 | 26,250.00 |
| 21 | MULCH MATERIAL TYPE 1 | Ton | 420 | 110.00 | 46,200.00 |
| 22 | DISK ANCHORING | Acre | 210 | 20.00 | 4,200.00 |
| 23 | EROSION CONTROL BLANKET | Sq. Yd. | 700 | 1.40 | 980.00 |
| 24 | WATER CONTROL | Lump Sum | 1 | 5,000.00 | 5,000.00 |
| 25 | FLOOD EARLY WARNING SYSTEM | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| **T** | **SCHEDULE 2.0 FLOODWAY -- TOTAL** | | | | **$1,362,170.00** |
| | **SCHEDULE 3.0 FLOODWAY INLET STRUCTURE** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 35,000.00 | 35,000.00 |
| 2 | STEEL SHEET PILE | Sq. Ft. | 9440 | 20.00 | 188,800.00 |
| 3 | STRUCTURAL CONCRETE | Cu. Yd. | 636 | 500.00 | 318,000.00 |
| 4 | LEAF GATES | Each | 3 | 91,000.00 | 273,000.00 |
| 5 | RIPRAP, ROCK | Cu. Yd. | 5970 | 50.00 | 298,500.00 |
| 6 | ELECTRIC POWER SUPPLY | Lin. Ft. | 3070 | 10.00 | 30,700.00 |
| **T** | **SCHEDULE 3.0 FLOODWAY INLET STRUCTURE -- TOTAL** | | | | **$1,144,000.00** |

**COST ESTIMATE FOR:**
**BROWNS VALLEY FLOOD MITIGATION PROJECT**
**FLOODWAY OPTION 1A-PASSIVE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 4.0 IMPROVEMENTS TO ROBERTS CR 24** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 15,000.00 | 15,000.00 |
| 2 | SAWING BITUMINOUS PAVEMENT (FULL DEPTH) | Lin. Ft. | 60 | 5.50 | 330.00 |
| 3 | REMOVE BITUMINOUS PAVEMENT | Sq. Yd. | 4333 | 2.62 | 11,352.46 |
| 4 | REMOVE CMP PIPE | Lin. Ft. | 150 | 4.75 | 712.50 |
| 5 | EARTHWORK | Cu. Yd. | 17000 | 3.00 | 51,000.00 |
| 6 | RCP CULVERTS | Lin. Ft. | 150 | 37.88 | 5,682.00 |
| 7 | RC PIPE APRONS | Each | 6 | 629.35 | 3,776.10 |
| 8 | SELECT GRANULAR BORROW | Cu. Yd. | 5247 | 12.00 | 62,964.00 |
| 9 | 6" AGGREGATE BASE | Ton | 4758 | 12.00 | 57,096.00 |
| 10 | 8" AGGREGATE SHOULDERING | Ton | 830 | 17.08 | 14,176.40 |
| 11 | BITUMINOUS MATERIAL FOR TACK COAT | Gallons | 614 | 2.00 | 1,228.00 |
| 12 | 6" BITUMINOUS BASE | Ton | 4220 | 50.78 | 214,291.60 |
| 13 | 2" BITUMINOUS WEARING COURSE | Ton | 1519 | 52.81 | 80,218.39 |
| 14 | TRAFFIC CONTROL | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 15 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 500 | 2.00 | 1,000.00 |
| 16 | TEMPORARY DITCH CHECK | Lin. Ft. | 50 | 5.00 | 250.00 |
| 17 | SEEDING | Acre | 15 | 80.00 | 1,200.00 |
| 18 | SEED MIXTURE 100 SERIES | Lb. | 750 | 2.00 | 1,500.00 |
| 19 | SEED MIXTURE 200 SERIES | Lb. | 750 | 2.50 | 1,875.00 |
| 20 | MULCH MATERIAL TYPE 1 | Ton | 30 | 110.00 | 3,300.00 |
| 21 | DISK ANCHORING | Acre | 15 | 20.00 | 300.00 |
| 22 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 23 | 4" SOLID LINE WHITE-EPOXY | Lin. Ft. | 8500 | 0.25 | 2,125.00 |
| 24 | 4" SOLID LINE YELLOW-EPOXY | Lin. Ft. | 4250 | 0.25 | 1,062.50 |
| 25 | 4" BROKEN LINE YELLOW-EPOXY | Lin. Ft. | 1060 | 0.25 | 265.00 |
| **T** | **SCHEDULE 4.0 IMPROVEMENTS TO ROBERTS CR 24 -- TOTAL** | | | | **$542,104.95** |
| | **SCHEDULE 5.0 IMPROVEMENTS TO CSAH 4** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 30,000.00 | 30,000.00 |
| 2 | BRIDGE - CSAH 4 | Lump Sum | 1 | 865,000.00 | 865,000.00 |
| 3 | SAWING BITUMINOUS PAVEMENT (FULL DEPTH) | Lin. Ft. | 50 | 5.50 | 275.00 |
| 4 | REMOVE BITUMINOUS PAVEMENT | Sq. Yd. | 2000 | 2.62 | 5,240.00 |
| 5 | EARTHWORK | Cu. Yd. | 4000 | 3.00 | 12,000.00 |
| 6 | SELECT GRANULAR BORROW | Cu. Yd. | 675 | 12.00 | 8,100.00 |
| 7 | 6" AGGREGATE BASE | Ton | 560 | 12.00 | 6,720.00 |
| 8 | 8" AGGREGATE SHOULDERING | Ton | 100 | 17.08 | 1,708.00 |
| 9 | BITUMINOUS MATERIAL FOR TACK COAT | Gallons | 75 | 2.00 | 150.00 |
| 10 | 6" BITUMINOUS BASE | Ton | 500 | 50.78 | 25,390.00 |
| 11 | 2" BITUMINOUS WEARING COURSE | Ton | 180 | 52.81 | 9,505.80 |
| 12 | TRAFFIC CONTROL | Lump Sum | 1 | 15,000.00 | 15,000.00 |
| 13 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 500 | 2.00 | 1,000.00 |
| 14 | SEEDING | Acre | 1 | 80.00 | 80.00 |

**COST ESTIMATE FOR:**
**BROWNS VALLEY FLOOD MITIGATION PROJECT**
**FLOODWAY OPTION 1A-PASSIVE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| 15 | SEED MIXTURE 100 SERIES | Lb. | 50 | 2.00 | 100.00 |
| 16 | SEED MIXTURE 200 SERIES | Lb. | 50 | 2.50 | 125.00 |
| 17 | MULCH MATERIAL TYPE 1 | Ton | 2 | 110.00 | 220.00 |
| 18 | DISK ANCHORING | Acre | 1 | 20.00 | 20.00 |
| 19 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 20 | 4" SOLID LINE WHITE-EPOXY | Lin. Ft. | 700 | 0.25 | 175.00 |
| 21 | 4" BROKEN LINE YELLOW-EPOXY | Lin. Ft. | 700 | 0.25 | 175.00 |
| **T** | **SCHEDULE 5.0 IMPROVEMENTS TO CSAH 4 -- TOTAL** | | | | **$982,383.80** |
| | **SCHEDULE 6.0: Farmstead Ring Dike** | | | | |
| 1 | Temporary Right of Way | Acre | 4 | 300.00 | 1,200.00 |
| 2 | Dike Construction | cu.yd. | 4400 | 3.00 | 13,200.00 |
| 3 | 18" CULVERTS, CSP | Lin. Ft. | 100 | 20.00 | 2,000.00 |
| 4 | 18" APRONS, CSP | Each | 2 | 150.00 | 300.00 |
| 5 | 18" FLAPGATES | Each | 2 | 1000.00 | 2,000.00 |
| 6 | Seed,Seeding, Mulch, Disk Anchoring | acre | 2 | 300.00 | 600.00 |
| 7 | 6" AGGREGATE BASE | Ton | 72 | 12.00 | 864.00 |
| | **SCHEDULE 6.0: Farmstead Ring Dike** | **Total** | | | **$20,164.00** |
| | **SCHEDULE 7.0 WETLAND/WOODLAND MITIGATION** | | | | |
| 1 | WETLAND/WOODLAND MITIGATION | Acre | 4 | 8712.00 | 34,848.00 |
| **T** | **SCHEDULE 7.0 WETLAND/WOODLAND MITIGATION--TOTAL** | | | | $34,848.00 |

**BID SUMMARY**

| | |
|---|---|
| **SCHEDULE 1.0 RIGHT OF WAY** | $254,010.00 |
| **SCHEDULE 2.0 FLOODWAY** | $1,362,170.00 |
| **SCHEDULE 3.0 FLOODWAY INLET STRUCTURE** | $1,144,000.00 |
| **SCHEDULE 4.0 IMPROVEMENTS TO ROBERTS CR 24** | $542,104.95 |
| **SCHEDULE 5.0 IMPROVEMENTS TO CSAH 4** | $982,383.80 |
| **SCHEDULE 6.0: Farmstead Ring Dike** | $20,164.00 |
| **SCHEDULE 7.0 WETLAND/WOODLAND MITIGATION** | $34,848.00 |

| | |
|---|---|
| **SUBTOTAL** | **$4,340,000.00** |
| **15% CONTINGENCIES** | **$651,000.00** |
| **TOTAL CONSTRUCTION COST** | **$4,991,000.00** |
| **15% ENGINEERING, INSPECTION, ADMINISTRATIVE COSTS** | **$748,650.00** |
| **TOTAL COST ESTIMATE** | **$5,740,000.00** |

**COST ESTIMATE FOR:**
**BROWNS VALLEY FLOOD MITIGATION PROJECT**
**FLOODWAY 1A ACTIVE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 1.0 RIGHT OF WAY** | | | | |
| 1 | RIGHT OF WAY - PERMANENT-INCL. NEW CR 24 | Acre | 83.3 | 3,000.00 | 249,900.00 |
| 2 | RIGHT OF WAY - TEMPORARY | Acre | 13.7 | 300.00 | 4,110.00 |
| **T** | **SCHEDULE 1.0 RIGHT OF WAY -- TOTAL** | | | | **$254,010.00** |
| | **SCHEDULE 2.0 FLOODWAY** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 35,000.00 | 35,000.00 |
| 2 | CLEARING AND GRUBBING | Acre | 4 | 3,000.00 | 12,000.00 |
| 3 | STRIPPING | Cu. Yd. | 64000 | 1.15 | 73,600.00 |
| 4 | TOPSOIL | Cu. Yd. | 42000 | 1.30 | 54,600.00 |
| 5 | COMMON EXCAVATION | Cu. Yd. | 240000 | 2.25 | 540,000.00 |
| 6 | 48"X78" CULVERT, CSP ARCH | Lin. Ft. | 100 | 60.00 | 6,000.00 |
| 7 | 18" SIDE INLET CULVERTS, CSP | Lin. Ft. | 2678 | 20.00 | 53,560.00 |
| 8 | APRON, 48"X78", CSP ARCH | Each | 2 | 3,000.00 | 6,000.00 |
| 9 | 18" APRONS, CSP | Each | 12 | 150.00 | 1,800.00 |
| 10 | 18" FLAPGATES | Each | 9 | 1,000.00 | 9,000.00 |
| 11 | RIPRAP, FOR LOW FLOW CHANNEL | Cu. Yd. | 4276 | 30.00 | 128,280.00 |
| 12 | RIPRAP, CL 3 | Cu. Yd. | 378 | 50.00 | 18,900.00 |
| 13 | RIPRAP AT OUTLET | Cu. Yd. | 400 | 50.00 | 20,000.00 |
| 14 | TRAFFIC CONTROL | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 15 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 1000 | 2.00 | 2,000.00 |
| 16 | FLOTATION SILT CURTAIN TYPE MOVING WATER | Lin. Ft. | 300 | 20.00 | 6,000.00 |
| 17 | TEMPORARY DITCH CHECK | Lin. Ft. | 500 | 5.00 | 2,500.00 |
| 18 | SEEDING | Acre | 210 | 80.00 | 16,800.00 |
| 19 | SEED MIXTURE 100 SERIES | Lb. | 10500 | 2.00 | 21,000.00 |
| 20 | SEED MIXTURE 200 SERIES | Lb. | 10500 | 2.50 | 26,250.00 |
| 21 | MULCH MATERIAL TYPE 1 | Ton | 420 | 110.00 | 46,200.00 |
| 22 | DISK ANCHORING | Acre | 210 | 20.00 | 4,200.00 |
| 23 | EROSION CONTROL BLANKET | Sq. Yd. | 700 | 1.40 | 980.00 |
| 24 | WATER CONTROL | Lump Sum | 1 | 5,000.00 | 5,000.00 |
| 25 | FLOOD EARLY WARNING SYSTEM | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| **T** | **SCHEDULE 2.0 FLOODWAY -- TOTAL** | | | | **$1,109,670.00** |
| | **SCHEDULE 3.0 FLOODWAY INLET STRUCTURE** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 2 | STEEL SHEET PILE | Sq. Ft. | 5730 | 20.00 | 114,600.00 |
| 3 | RIPRAP | Cu. Yd. | 2500 | 50.00 | 125,000.00 |
| **T** | **SCHEDULE 3.0 FLOODWAY INLET STRUCTURE -- TOTAL** | | | | **$249,600.00** |
| | **SCHEDULE 4.0 ACTIVE CONTROL STRUCTURE** | | | | |
| 1 | 12.5' by 13' Radial Tainter Gate | Each | 4 | 105,000.00 | 420,000.00 |
| 2 | Installation of Tainter Gates | Each | 4 | 25,000.00 | 100,000.00 |
| 3 | Structural Concrete for walls, bases and floors | Cu. Yd | 600 | 500.00 | 300,000.00 |

**COST ESTIMATE FOR:**
**BROWNS VALLEY FLOOD MITIGATION PROJECT**
**FLOODWAY 1A ACTIVE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| 4 | Controls and Steel Elements at gates | Each | 4 | 20,000.00 | 80,000.00 |
| 5 | Excavation and Foundation Preparation | l.s. | 1 | 50,000.00 | 50,000.00 |
| 6 | Rock Protection - Upstream and downstream | Cu. Yd | 1,100 | 50.00 | 55,000.00 |
| 7 | Embankment | Cu. Yd | 30,000 | 2.00 | 60,000.00 |
| **T** | **SCHEDULE 4.0 ACTIVE CONTROL STRUCTURE -- TOTAL** | | | | **$1,065,000.00** |
| | **SCHEDULE 5.0 IMPROVEMENTS TO ROBERTS CR 24** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 15,000.00 | 15,000.00 |
| 2 | SAWING BITUMINOUS PAVEMENT (FULL DEPTH) | Lin. Ft. | 60 | 5.50 | 330.00 |
| 3 | REMOVE BITUMINOUS PAVEMENT | Sq. Yd. | 4333 | 2.62 | 11,352.46 |
| 4 | REMOVE CMP PIPE | Lin. Ft. | 150 | 4.75 | 712.50 |
| 5 | EARTHWORK | Cu. Yd. | 17000 | 3.00 | 51,000.00 |
| 6 | RCP CULVERTS | Lin. Ft. | 150 | 37.88 | 5,682.00 |
| 7 | RC PIPE APRONS | Each | 6 | 629.35 | 3,776.10 |
| 8 | SELECT GRANULAR BORROW | Cu. Yd. | 5247 | 12.00 | 62,964.00 |
| 9 | 6" AGGREGATE BASE | Ton | 4758 | 12.00 | 57,096.00 |
| 10 | 8" AGGREGATE SHOULDERING | Ton | 830 | 17.08 | 14,176.40 |
| 11 | BITUMINOUS MATERIAL FOR TACK COAT | Gallons | 614 | 2.00 | 1,228.00 |
| 12 | 6" BITUMINOUS BASE | Ton | 4220 | 50.78 | 214,291.60 |
| 13 | 2" BITUMINOUS WEARING COURSE | Ton | 1519 | 52.81 | 80,218.39 |
| 14 | TRAFFIC CONTROL | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 15 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 500 | 2.00 | 1,000.00 |
| 16 | TEMPORARY DITCH CHECK | Lin. Ft. | 50 | 5.00 | 250.00 |
| 17 | SEEDING | Acre | 15 | 80.00 | 1,200.00 |
| 18 | SEED MIXTURE 100 SERIES | Lb. | 750 | 2.00 | 1,500.00 |
| 19 | SEED MIXTURE 200 SERIES | Lb. | 750 | 2.50 | 1,875.00 |
| 20 | MULCH MATERIAL TYPE 1 | Ton | 30 | 110.00 | 3,300.00 |
| 21 | DISK ANCHORING | Acre | 15 | 20.00 | 300.00 |
| 22 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 23 | 4" SOLID LINE WHITE-EPOXY | Lin. Ft. | 8500 | 0.25 | 2,125.00 |
| 24 | 4" SOLID LINE YELLOW-EPOXY | Lin. Ft. | 4250 | 0.25 | 1,062.50 |
| 25 | 4" BROKEN LINE YELLOW-EPOXY | Lin. Ft. | 1060 | 0.25 | 265.00 |
| **T** | **SCHEDULE 5.0 IMPROVEMENTS TO ROBERTS CR 24 -- TOTAL** | | | | **$542,104.95** |
| | **SCHEDULE 6.0 IMPROVEMENTS TO CSAH 4** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 30,000.00 | 30,000.00 |
| 2 | BRIDGE - CSAH 4 | Lump Sum | 1 | 865,000.00 | 865,000.00 |
| 3 | SAWING BITUMINOUS PAVEMENT (FULL DEPTH) | Lin. Ft. | 50 | 5.50 | 275.00 |
| 4 | REMOVE BITUMINOUS PAVEMENT | Sq. Yd. | 2000 | 2.62 | 5,240.00 |
| 5 | EARTHWORK | Cu. Yd. | 4000 | 3.00 | 12,000.00 |
| 6 | SELECT GRANULAR BORROW | Cu. Yd. | 675 | 12.00 | 8,100.00 |
| 7 | 6" AGGREGATE BASE | Ton | 560 | 12.00 | 6,720.00 |
| 8 | 8" AGGREGATE SHOULDERING | Ton | 100 | 17.08 | 1,708.00 |
| 9 | BITUMINOUS MATERIAL FOR TACK COAT | Gallons | 75 | 2.00 | 150.00 |
| 10 | 6" BITUMINOUS BASE | Ton | 500 | 50.78 | 25,390.00 |

**COST ESTIMATE FOR:**
**BROWNS VALLEY FLOOD MITIGATION PROJECT**
**FLOODWAY 1A ACTIVE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| 11 | 2" BITUMINOUS WEARING COURSE | Ton | 180 | 52.81 | 9,505.80 |
| 12 | TRAFFIC CONTROL | Lump Sum | 1 | 15,000.00 | 15,000.00 |
| 13 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 500 | 2.00 | 1,000.00 |
| 14 | SEEDING | Acre | 1 | 80.00 | 80.00 |
| 15 | SEED MIXTURE 100 SERIES | Lb. | 50 | 2.00 | 100.00 |
| 16 | SEED MIXTURE 200 SERIES | Lb. | 50 | 2.50 | 125.00 |
| 17 | MULCH MATERIAL TYPE 1 | Ton | 2 | 110.00 | 220.00 |
| 18 | DISK ANCHORING | Acre | 1 | 20.00 | 20.00 |
| 19 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 20 | 4" SOLID LINE WHITE-EPOXY | Lin. Ft. | 700 | 0.25 | 175.00 |
| 21 | 4" BROKEN LINE YELLOW-EPOXY | Lin. Ft. | 700 | 0.25 | 175.00 |
| **T** | **SCHEDULE 6.0 IMPROVEMENTS TO CSAH 4 -- TOTAL** | | | | **$982,383.80** |
| | **SCHEDULE 7.0: Farmstead Ring Dike** | | | | |
| 1 | Temporary Right of Way | Acre | 4 | 300.00 | 1,200.00 |
| 2 | Dike Construction | cu.yd. | 4400 | 3.00 | 13,200.00 |
| 3 | 18" CULVERTS, CSP | Lin. Ft. | 100 | 20.00 | 2,000.00 |
| 4 | 18" APRONS, CSP | Each | 2 | 150.00 | 300.00 |
| 5 | 18" FLAPGATES | Each | 2 | 1000.00 | 2,000.00 |
| 6 | Seed,Seeding, Mulch, Disk Anchoring | acre | 2 | 300.00 | 600.00 |
| 7 | 6" AGGREGATE BASE | Ton | 72 | 12.00 | 864.00 |
| | **SCHEDULE 7.0: Farmstead Ring Dike** | **Total** | | | **$20,164.00** |
| | **SCHEDULE 8.0 WETLAND/WOODLAND MITIGATION** | | | | |
| 1 | WETLAND/WOODLAND MITIGATION | Acre | 4 | 8712.00 | 34,848.00 |
| **T** | **SCHEDULE 8.0 WETLAND/WOODLAND MITIGATION--TOTAL** | | | | **$34,848.00** |

**BID SUMMARY**

| | |
|---|---|
| **SCHEDULE 1.0 RIGHT OF WAY** | $254,010.00 |
| **SCHEDULE 2.0 FLOODWAY** | $1,109,670.00 |
| **SCHEDULE 3.0 FLOODWAY INLET STRUCTURE** | $249,600.00 |
| **SCHEDULE 4.0 ACTIVE CONTROL STRUCTURE** | $1,065,000.00 |
| **SCHEDULE 5.0 IMPROVEMENTS TO ROBERTS CR 24** | $542,104.95 |
| **SCHEDULE 6.0 IMPROVEMENTS TO CSAH 4** | $982,383.80 |
| **SCHEDULE 7.0: Farmstead Ring Dike** | $20,164.00 |
| **SCHEDULE 8.0 WETLAND/WOODLAND MITIGATION** | $34,848.00 |
| **SUBTOTAL** | **$4,260,000.00** |
| **15% CONTINGENCIES** | **$639,000.00** |
| **TOTAL CONSTRUCTION COST** | **$4,899,000.00** |
| **15% ENGINEERING, INSPECTION, ADMINISTRATIVE COSTS** | **$734,850.00** |
| **TOTAL COST ESTIMATE** | **$5,640,000.00** |

**COST ESTIMATE FOR:**
**BROWNS VALLEY FLOOD MITIGATION PROJECT**
**FLOODWAY OPTION 3 PASSIVE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 1.0 RIGHT OF WAY** | | | | |
| 1 | RIGHT OF WAY - PERMANENT-INCL. NEW CR 24 | Acre | 102.4 | 3,000.00 | 307,200.00 |
| 2 | RIGHT OF WAY - TEMPORARY | Acre | 16.6 | 300.00 | 4,980.00 |
| 3 | RIGHT OF WAY - PERMANENT-LMR LEVEE NORTH | Acre | 4.2 | 3,000.00 | 12,600.00 |
| 4 | RIGHT OF WAY - TEMPORARY - LMR LEVEE NORTH | Acre | 12.4 | 300.00 | 3,720.00 |
| **T** | **SCHEDULE 1.0 RIGHT OF WAY -- TOTAL** | | | | $328,500.00 |
| | **SCHEDULE 2.0 FLOODWAY** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 65,000.00 | 65,000.00 |
| 2 | CLEARING AND GRUBBING | Acre | 4 | 3,000.00 | 12,000.00 |
| 3 | STRIPPING | Cu. Yd. | 78000 | 1.15 | 89,700.00 |
| 4 | TOPSOIL | Cu. Yd. | 52000 | 1.30 | 67,600.00 |
| 5 | COMMON EXCAVATION | Cu. Yd. | 690000 | 2.25 | 1,552,500.00 |
| 6 | 48"X78" CULVERT, CSP ARCH | Lin. Ft. | 100 | 60.00 | 6,000.00 |
| 7 | 18" SIDE INLET CULVERTS, CSP | Lin. Ft. | 3238 | 20.00 | 64,760.00 |
| 8 | APRON, 48"X78", CSP ARCH | Each | 2 | 3,000.00 | 6,000.00 |
| 9 | 18" APRONS, CSP | Each | 14 | 150.00 | 2,100.00 |
| 10 | 18" FLAPGATES | Each | 11 | 1,000.00 | 11,000.00 |
| 11 | RIPRAP, FOR LOW FLOW CHANNEL | Cu. Yd. | 6074 | 30.00 | 182,220.00 |
| 12 | RIPRAP, CL 3 | Cu. Yd. | 378 | 50.00 | 18,900.00 |
| 13 | RIPRAP AT OUTLET | Cu. Yd. | 400 | 50.00 | 20,000.00 |
| 14 | TRAFFIC CONTROL | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 15 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 600 | 2.00 | 1,200.00 |
| 16 | FLOTATION SILT CURTAIN TYPE MOVING WATER | Lin. Ft. | 100 | 20.00 | 2,000.00 |
| 17 | TEMPORARY DITCH CHECK | Lin. Ft. | 500 | 5.00 | 2,500.00 |
| 18 | SEEDING | Acre | 190 | 80.00 | 15,200.00 |
| 19 | SEED MIXTURE 100 SERIES | Lb. | 9500 | 2.00 | 19,000.00 |
| 20 | SEED MIXTURE 200 SERIES | Lb. | 9500 | 2.50 | 23,750.00 |
| 21 | MULCH MATERIAL TYPE 1 | Ton | 380 | 110.00 | 41,800.00 |
| 22 | DISK ANCHORING | Acre | 190 | 20.00 | 3,800.00 |
| 23 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 24 | WATER CONTROL | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 25 | FLOOD EARLY WARNING SYSTEM | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| **T** | **SCHEDULE 2.0 FLOODWAY -- TOTAL** | | | | **$2,238,430.00** |
| | **SCHEDULE 3.0 FLOODWAY INLET STRUCTURE** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 35,000.00 | 35,000.00 |
| 2 | STEEL SHEET PILE | Sq. Ft. | 9440 | 20.00 | 188,800.00 |
| 3 | STRUCTURAL CONCRETE | Cu. Yd. | 636 | 500.00 | 318,000.00 |
| 4 | LEAF GATES | Each | 3 | 91,000.00 | 273,000.00 |
| 5 | RIPRAP, ROCK | Cu. Yd. | 5970 | 50.00 | 298,500.00 |
| 6 | ELECTRIC POWER SUPPLY | Lin. Ft. | 3070 | 10.00 | 30,700.00 |

**COST ESTIMATE FOR:**
**BROWNS VALLEY FLOOD MITIGATION PROJECT**
**FLOODWAY OPTION 3 PASSIVE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| **T** | **SCHEDULE 3.0 FLOODWAY INLET STRUCTURE -- TOTAL** | | | | **$1,144,000.00** |
| | **SCHEDULE 4.0 IMPROVEMENTS TO ROBERTS CR 24** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 16,000.00 | 16,000.00 |
| 2 | SAWING BITUMINOUS PAVEMENT (FULL DEPTH) | Lin. Ft. | 60 | 5.50 | 330.00 |
| 3 | REMOVE BITUMINOUS PAVEMENT | Sq. Yd. | 7944 | 2.62 | 20,813.28 |
| 4 | REMOVE CMP PIPE | Lin. Ft. | 150 | 4.75 | 712.50 |
| 5 | EARTHWORK | Cu. Yd. | 22000 | 3.00 | 66,000.00 |
| 6 | RCP CULVERTS | Lin. Ft. | 150 | 37.88 | 5,682.00 |
| 7 | RC PIPE APRONS | Each | 6 | 629.35 | 3,776.10 |
| 8 | SELECT GRANULAR BORROW | Cu. Yd. | 5309 | 12.00 | 63,708.00 |
| 9 | 6" AGGREGATE BASE | Ton | 4814 | 12.00 | 57,768.00 |
| 10 | 8" AGGREGATE SHOULDERING | Ton | 839 | 17.08 | 14,330.12 |
| 11 | BITUMINOUS MATERIAL FOR TACK COAT | Gallons | 621 | 2.00 | 1,242.00 |
| 12 | 6" BITUMINOUS BASE | Ton | 4270 | 50.78 | 216,830.60 |
| 13 | 2" BITUMINOUS WEARING COURSE | Ton | 1537 | 52.81 | 81,168.97 |
| 14 | TRAFFIC CONTROL | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 15 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 500 | 2.00 | 1,000.00 |
| 16 | TEMPORARY DITCH CHECK | Lin. Ft. | 50 | 5.00 | 250.00 |
| 17 | SEEDING | Acre | 33 | 80.00 | 2,640.00 |
| 18 | SEED MIXTURE 100 SERIES | Lb. | 1650 | 2.00 | 3,300.00 |
| 19 | SEED MIXTURE 200 SERIES | Lb. | 1650 | 2.50 | 4,125.00 |
| 20 | MULCH MATERIAL TYPE 1 | Ton | 62 | 110.00 | 6,820.00 |
| 21 | DISK ANCHORING | Acre | 33 | 20.00 | 660.00 |
| 22 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 23 | 4" SOLID LINE WHITE-EPOXY | Lin. Ft. | 8600 | 0.25 | 2,150.00 |
| 24 | 4" SOLID LINE YELLOW-EPOXY | Lin. Ft. | 4300 | 0.25 | 1,075.00 |
| 25 | 4" BROKEN LINE YELLOW-EPOXY | Lin. Ft. | 1075 | 0.25 | 268.75 |
| **T** | **SCHEDULE 4.0 IMPROVEMENTS TO ROBERTS CR 24 -- TOTAL** | | | | **$582,050.32** |
| | **SCHEDULE 5.0 IMPROVEMENTS TO CSAH 4** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 30,000.00 | 30,000.00 |
| 2 | BRIDGE - CSAH 4 | Lump Sum | 1 | 865,000.00 | 865,000.00 |
| 3 | SAWING BITUMINOUS PAVEMENT (FULL DEPTH) | Lin. Ft. | 50 | 5.50 | 275.00 |
| 4 | REMOVE BITUMINOUS PAVEMENT | Sq. Yd. | 2000 | 2.62 | 5,240.00 |
| 5 | EARTHWORK | Cu. Yd. | 4000 | 3.00 | 12,000.00 |
| 6 | SELECT GRANULAR BORROW | Cu. Yd. | 675 | 12.00 | 8,100.00 |
| 7 | 6" AGGREGATE BASE | Ton | 560 | 12.00 | 6,720.00 |
| 8 | 8" AGGREGATE SHOULDERING | Ton | 100 | 17.08 | 1,708.00 |
| 9 | BITUMINOUS MATERIAL FOR TACK COAT | Gallons | 75 | 2.00 | 150.00 |
| 10 | 6" BITUMINOUS BASE | Ton | 500 | 50.78 | 25,390.00 |
| 11 | 2" BITUMINOUS WEARING COURSE | Ton | 180 | 52.81 | 9,505.80 |
| 12 | TRAFFIC CONTROL | Lump Sum | 1 | 15,000.00 | 15,000.00 |

**COST ESTIMATE FOR:**
**BROWNS VALLEY FLOOD MITIGATION PROJECT**
**FLOODWAY OPTION 3 PASSIVE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| 13 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 500 | 2.00 | 1,000.00 |
| 14 | SEEDING | Acre | 1 | 80.00 | 80.00 |
| 15 | SEED MIXTURE 100 SERIES | Lb. | 50 | 2.00 | 100.00 |
| 16 | SEED MIXTURE 200 SERIES | Lb. | 50 | 2.50 | 125.00 |
| 17 | MULCH MATERIAL TYPE 1 | Ton | 2 | 110.00 | 220.00 |
| 18 | DISK ANCHORING | Acre | 1 | 20.00 | 20.00 |
| 19 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 20 | 4" SOLID LINE WHITE-EPOXY | Lin. Ft. | 700 | 0.25 | 175.00 |
| 21 | 4" BROKEN LINE YELLOW-EPOXY | Lin. Ft. | 700 | 0.25 | 175.00 |
| **T** | **SCHEDULE 5.0 IMPROVEMENTS TO CSAH 4 -- TOTAL** | | | | **$982,383.80** |
| | **SCHEDULE 6.0 LITTLE MINNESOTA RIVER LEVEE** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 2 | CLEARING AND GRUBBING | Lump Sum | 1 | 5,000.00 | 5,000.00 |
| 3 | STRIPPING | Cu. Yd. | 3350 | 1.15 | 3,852.50 |
| 4 | TOPSOIL | Cu. Yd. | 2200 | 1.30 | 2,860.00 |
| 5 | UNCLASSIFIED EXCAVATION (KEY TRENCH) | Cu. Yd. | 7400 | 2.25 | 16,650.00 |
| 6 | IMPERVIOUS FILL | Cu. Yd. | 24000 | 3.00 | 72,000.00 |
| 7 | 12'X5' PRECAST CONCRETE BOX CULVERT | Lin. Ft. | 60 | 686.40 | 41,184.00 |
| 8 | CULVERT END SECTIONS | Lump Sum | 6 | 8,121.00 | 48,726.00 |
| 9 | AGGREGATE SURFACING, CLASS 5 (CV) | Ton | 1600 | 12.00 | 19,200.00 |
| 10 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 500 | 2.00 | 1,000.00 |
| 11 | SEEDING | Acre | 16.6 | 80.00 | 1,328.00 |
| 12 | SEED MIXTURE 100 SERIES | Lb. | 830 | 2.00 | 1,660.00 |
| 13 | SEED MIXTURE 200 SERIES | Lb. | 830 | 2.50 | 2,075.00 |
| 14 | MULCH MATERIAL TYPE 1 | Ton | 33.2 | 110.00 | 3,652.00 |
| 15 | DISK ANCHORING | Acre | 16.6 | 20.00 | 332.00 |
| 16 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 17 | WATER CONTROL | Lump Sum | 1 | 2,000.00 | 2,000.00 |
| **T** | **SCHEDULE 6.0 LITTLE MINNESOTA RIVER LEVEE -- TOTAL** | | | | **$232,919.50** |
| | **SCHEDULE 7.0: Farmstead Ring Dike** | | | | |
| 1 | Temporary Right of Way | Acre | 4 | 300.00 | 1,200.00 |
| 2 | Dike Construction | cu.yd. | 4400 | 3.00 | 13,200.00 |
| 3 | 18" CULVERTS, CSP | Lin. Ft. | 100 | 20.00 | 2,000.00 |
| 4 | 18" APRONS, CSP | Each | 2 | 150.00 | 300.00 |
| 5 | 18" FLAPGATES | Each | 2 | 1000.00 | 2,000.00 |
| 6 | Seed,Seeding, Mulch, Disk Anchoring | acre | 2 | 300.00 | 600.00 |
| 7 | 6" AGGREGATE BASE | Ton | 72 | 12.00 | 864.00 |
| | **SCHEDULE 7.0: Farmstead Ring Dike** | **Total** | | | **$20,164.00** |

**COST ESTIMATE FOR:**
**BROWNS VALLEY FLOOD MITIGATION PROJECT**
**FLOODWAY OPTION 3 PASSIVE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 8.0 WETLAND/WOODLAND MITIGATION** | | | | |
| 1 | WETLAND/WOODLAND MITIGATION | Acre | 4 | 8712.00 | 34,848.00 |
| **T** | **SCHEDULE 8.0 WETLAND/WOODLAND MITIGATION--TOTAL** | | | | **$34,848.00** |

**BID SUMMARY**

| | |
|---|---|
| **SCHEDULE 1.0 RIGHT OF WAY** | $328,500.00 |
| **SCHEDULE 2.0 FLOODWAY** | $2,238,430.00 |
| **SCHEDULE 3.0 FLOODWAY INLET STRUCTURE** | $1,144,000.00 |
| **SCHEDULE 4.0 IMPROVEMENTS TO ROBERTS CR 24** | $582,050.32 |
| **SCHEDULE 5.0 IMPROVEMENTS TO CSAH 4** | $982,383.80 |
| **SCHEDULE 6.0 LITTLE MINNESOTA RIVER LEVEE** | $232,919.50 |
| **SCHEDULE 7.0: Farmstead Ring Dike** | $20,164.00 |
| **SCHEDULE 8.0 WETLAND/WOODLAND MITIGATION** | $34,848.00 |
| **SUBTOTAL** | **$5,570,000.00** |
| **15% CONTINGENCIES** | **$835,500.00** |
| **TOTAL CONSTRUCTION COST** | **$6,405,500.00** |
| **15% ENGINEERING, INSPECTION, ADMINISTRATIVE COSTS** | **$960,825.00** |
| **TOTAL COST ESTIMATE** | **$7,370,000.00** |

**COST ESTIMATE FOR:**
**BROWNS VALLEY FLOOD MITIGATION PROJECT**
**FLOODWAY OPTION 3 ACTIVE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 1.0 RIGHT OF WAY** | | | | |
| 1 | RIGHT OF WAY - PERMANENT-INCL. NEW CR 24 | Acre | 102.4 | 3,000.00 | 307,200.00 |
| 2 | RIGHT OF WAY - TEMPORARY | Acre | 16.6 | 300.00 | 4,980.00 |
| 3 | RIGHT OF WAY - PERMANENT-LMR LEVEE NORTH | Acre | 4.2 | 3,000.00 | 12,600.00 |
| 4 | RIGHT OF WAY - TEMPORARY - LMR LEVEE NORTH | Acre | 12.4 | 300.00 | 3,720.00 |
| **T** | **SCHEDULE 1.0 RIGHT OF WAY -- TOTAL** | | | | **$328,500.00** |
| | **SCHEDULE 2.0 FLOODWAY** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 50,000.00 | 50,000.00 |
| 2 | CLEARING AND GRUBBING | Acre | 4 | 3,000.00 | 12,000.00 |
| 3 | STRIPPING | Cu. Yd. | 78000 | 1.15 | 89,700.00 |
| 4 | TOPSOIL | Cu. Yd. | 52000 | 1.30 | 67,600.00 |
| 5 | COMMON EXCAVATION | Cu. Yd. | 470000 | 2.25 | 1,057,500.00 |
| 6 | 48"X78" CULVERT, CSP ARCH | Lin. Ft. | 100 | 60.00 | 6,000.00 |
| 7 | 18" SIDE INLET CULVERTS, CSP | Lin. Ft. | 3238 | 20.00 | 64,760.00 |
| 8 | APRON, 48"X78", CSP ARCH | Each | 2 | 3,000.00 | 6,000.00 |
| 9 | 18" APRONS, CSP | Each | 14 | 150.00 | 2,100.00 |
| 10 | 18" FLAPGATES | Each | 11 | 1,000.00 | 11,000.00 |
| 11 | RIPRAP, FOR LOW FLOW CHANNEL | Cu. Yd. | 6074 | 30.00 | 182,220.00 |
| 12 | RIPRAP, CL 3 | Cu. Yd. | 378 | 50.00 | 18,900.00 |
| 13 | RIPRAP AT OUTLET | Cu. Yd. | 400 | 50.00 | 20,000.00 |
| 14 | TRAFFIC CONTROL | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 15 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 600 | 2.00 | 1,200.00 |
| 16 | FLOTATION SILT CURTAIN TYPE MOVING WATER | Lin. Ft. | 100 | 20.00 | 2,000.00 |
| 17 | TEMPORARY DITCH CHECK | Lin. Ft. | 500 | 5.00 | 2,500.00 |
| 18 | SEEDING | Acre | 190 | 80.00 | 15,200.00 |
| 19 | SEED MIXTURE 100 SERIES | Lb. | 9500 | 2.00 | 19,000.00 |
| 20 | SEED MIXTURE 200 SERIES | Lb. | 9500 | 2.50 | 23,750.00 |
| 21 | MULCH MATERIAL TYPE 1 | Ton | 380 | 110.00 | 41,800.00 |
| 22 | DISK ANCHORING | Acre | 190 | 20.00 | 3,800.00 |
| 23 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 24 | WATER CONTROL | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 25 | FLOOD EARLY WARNING SYSTEM | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| **T** | **SCHEDULE 2.0 FLOODWAY -- TOTAL** | | | | **$1,728,430.00** |
| | **SCHEDULE 3.0 FLOODWAY INLET STRUCTURE** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 2 | STEEL SHEET PILE | Sq. Ft. | 5730 | 20.00 | 114,600.00 |
| 3 | RIPRAP | Cu. Yd. | 2500 | 50.00 | 125,000.00 |
| **T** | **SCHEDULE 3.0 FLOODWAY INLET STRUCTURE -- TOTAL** | | | | **$249,600.00** |

**COST ESTIMATE FOR:**
**BROWNS VALLEY FLOOD MITIGATION PROJECT**
**FLOODWAY OPTION 3 ACTIVE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 4.0 ACTIVE CONTROL STRUCTURE** | | | | |
| 1 | 12.5' by 13' Radial Tainter Gate | Each | 4 | 105,000.00 | 420,000.00 |
| 2 | Installation of Tainter Gates | Each | 4 | 25,000.00 | 100,000.00 |
| 3 | Structural Concrete for walls, bases and floors | Cu. Yd | 600 | 500.00 | 300,000.00 |
| 4 | Controls and Steel Elements at gates | Each | 4 | 20,000.00 | 80,000.00 |
| 5 | Excavation and Foundation Preparation | l.s. | 1 | 50,000.00 | 50,000.00 |
| 6 | Rock Protection - Upstream and downstream | Cu. Yd | 1100 | 50.00 | 55,000.00 |
| 7 | Embankment | Cu. Yd | 30000 | 2.00 | 60,000.00 |
| **T** | **SCHEDULE 4.0 ACTIVE CONTROL STRUCTURE -- TOTAL** | | | | **$1,065,000.00** |
| | **SCHEDULE 5.0 IMPROVEMENTS TO ROBERTS CR 24** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 16,000.00 | 16,000.00 |
| 2 | SAWING BITUMINOUS PAVEMENT (FULL DEPTH) | Lin. Ft. | 60 | 5.50 | 330.00 |
| 3 | REMOVE BITUMINOUS PAVEMENT | Sq. Yd. | 7944 | 2.62 | 20,813.28 |
| 4 | REMOVE CMP PIPE | Lin. Ft. | 150 | 4.75 | 712.50 |
| 5 | EARTHWORK | Cu. Yd. | 22000 | 3.00 | 66,000.00 |
| 6 | RCP CULVERTS | Lin. Ft. | 150 | 37.88 | 5,682.00 |
| 7 | RC PIPE APRONS | Each | 6 | 629.35 | 3,776.10 |
| 8 | SELECT GRANULAR BORROW | Cu. Yd. | 5309 | 12.00 | 63,708.00 |
| 9 | 6" AGGREGATE BASE | Ton | 4814 | 12.00 | 57,768.00 |
| 10 | 8" AGGREGATE SHOULDERING | Ton | 839 | 17.08 | 14,330.12 |
| 11 | BITUMINOUS MATERIAL FOR TACK COAT | Gallons | 621 | 2.00 | 1,242.00 |
| 12 | 6" BITUMINOUS BASE | Ton | 4270 | 50.78 | 216,830.60 |
| 13 | 2" BITUMINOUS WEARING COURSE | Ton | 1537 | 52.81 | 81,168.97 |
| 14 | TRAFFIC CONTROL | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 15 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 500 | 2.00 | 1,000.00 |
| 16 | TEMPORARY DITCH CHECK | Lin. Ft. | 50 | 5.00 | 250.00 |
| 17 | SEEDING | Acre | 33 | 80.00 | 2,640.00 |
| 18 | SEED MIXTURE 100 SERIES | Lb. | 1650 | 2.00 | 3,300.00 |
| 19 | SEED MIXTURE 200 SERIES | Lb. | 1650 | 2.50 | 4,125.00 |
| 20 | MULCH MATERIAL TYPE 1 | Ton | 66 | 110.00 | 7,260.00 |
| 21 | DISK ANCHORING | Acre | 33 | 20.00 | 660.00 |
| 22 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 23 | 4" SOLID LINE WHITE-EPOXY | Lin. Ft. | 8600 | 0.25 | 2,150.00 |
| 24 | 4" SOLID LINE YELLOW-EPOXY | Lin. Ft. | 4300 | 0.25 | 1,075.00 |
| 25 | 4" BROKEN LINE YELLOW-EPOXY | Lin. Ft. | 1075 | 0.25 | 268.75 |
| **T** | **SCHEDULE 5.0 IMPROVEMENTS TO ROBERTS CR 24 -- TOTAL** | | | | **$582,490.32** |
| | **SCHEDULE 6.0 IMPROVEMENTS TO CSAH 4** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 30,000.00 | 30,000.00 |
| 2 | BRIDGE - CSAH 4 | Lump Sum | 1 | 865,000.00 | 865,000.00 |
| 3 | SAWING BITUMINOUS PAVEMENT (FULL DEPTH) | Lin. Ft. | 50 | 5.50 | 275.00 |

**COST ESTIMATE FOR:**
**BROWNS VALLEY FLOOD MITIGATION PROJECT**
**FLOODWAY OPTION 3 ACTIVE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| 4 | REMOVE BITUMINOUS PAVEMENT | Sq. Yd. | 2000 | 2.62 | 5,240.00 |
| 5 | EARTHWORK | Cu. Yd. | 4000 | 3.00 | 12,000.00 |
| 6 | SELECT GRANULAR BORROW | Cu. Yd. | 675 | 12.00 | 8,100.00 |
| 7 | 6" AGGREGATE BASE | Ton | 560 | 12.00 | 6,720.00 |
| 8 | 8" AGGREGATE SHOULDERING | Ton | 100 | 17.08 | 1,708.00 |
| 9 | BITUMINOUS MATERIAL FOR TACK COAT | Gallons | 75 | 2.00 | 150.00 |
| 10 | 6" BITUMINOUS BASE | Ton | 500 | 50.78 | 25,390.00 |
| 11 | 2" BITUMINOUS WEARING COURSE | Ton | 180 | 52.81 | 9,505.80 |
| 12 | TRAFFIC CONTROL | Lump Sum | 1 | 15,000.00 | 15,000.00 |
| 13 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 500 | 2.00 | 1,000.00 |
| 14 | SEEDING | Acre | 1 | 80.00 | 80.00 |
| 15 | SEED MIXTURE 100 SERIES | Lb. | 50 | 2.00 | 100.00 |
| 16 | SEED MIXTURE 200 SERIES | Lb. | 50 | 2.50 | 125.00 |
| 17 | MULCH MATERIAL TYPE 1 | Ton | 2 | 110.00 | 220.00 |
| 18 | DISK ANCHORING | Acre | 1 | 20.00 | 20.00 |
| 19 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 20 | 4" SOLID LINE WHITE-EPOXY | Lin. Ft. | 700 | 0.25 | 175.00 |
| 21 | 4" BROKEN LINE YELLOW-EPOXY | Lin. Ft. | 700 | 0.25 | 175.00 |
| **T** | **SCHEDULE 6.0 IMPROVEMENTS TO CSAH 4 -- TOTAL** | | | | **$982,383.80** |
| | **SCHEDULE 7.0 LITTLE MINNESOTA RIVER LEVEE** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 2 | CLEARING AND GRUBBING | Lump Sum | 1 | 5,000.00 | 5,000.00 |
| 3 | STRIPPING | Cu. Yd. | 3350 | 1.15 | 3,852.50 |
| 4 | TOPSOIL | Cu. Yd. | 2200 | 1.30 | 2,860.00 |
| 5 | UNCLASSIFIED EXCAVATION (KEY TRENCH) | Cu. Yd. | 7400 | 2.25 | 16,650.00 |
| 6 | IMPERVIOUS FILL | Cu. Yd. | 24000 | 3.00 | 72,000.00 |
| 7 | 12'X5' PRECAST CONCRETE BOX CULVERT | Lin. Ft. | 120 | 686.40 | 82,368.00 |
| 8 | CULVERT END SECTIONS | Lump Sum | 6 | 8,121.00 | 48,726.00 |
| 8 | AGGREGATE SURFACING, CLASS 5 (CV) | Ton | 1600 | 12.00 | 19,200.00 |
| 9 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 500 | 2.00 | 1,000.00 |
| 10 | SEEDING | Acre | 16.6 | 80.00 | 1,328.00 |
| 11 | SEED MIXTURE 100 SERIES | Lb. | 830 | 2.00 | 1,660.00 |
| 12 | SEED MIXTURE 200 SERIES | Lb. | 830 | 2.50 | 2,075.00 |
| 13 | MULCH MATERIAL TYPE 1 | Ton | 33.2 | 110.00 | 3,652.00 |
| 14 | DISK ANCHORING | Acre | 16.6 | 20.00 | 332.00 |
| 15 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 16 | WATER CONTROL | Lump Sum | 1 | 2,000.00 | 2,000.00 |
| **T** | **SCHEDULE 7.0 LITTLE MINNESOTA RIVER LEVEE -- TOTAL** | | | | **$274,103.50** |

**COST ESTIMATE FOR:**
**BROWNS VALLEY FLOOD MITIGATION PROJECT**
**FLOODWAY OPTION 3 ACTIVE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 8.0: Farmstead Ring Dike** | | | | |
| 1 | Temporary Right of Way | Acre | 4 | 300.00 | 1,200.00 |
| 2 | Dike Construction | cu.yd. | 4400 | 3.00 | 13,200.00 |
| 3 | 18" CULVERTS, CSP | Lin. Ft. | 100 | 20.00 | 2,000.00 |
| 4 | 18" APRONS, CSP | Each | 2 | 150.00 | 300.00 |
| 5 | 18" FLAPGATES | Each | 2 | 1000.00 | 2,000.00 |
| 6 | Seed,Seeding, Mulch, Disk Anchoring | acre | 2 | 300.00 | 600.00 |
| 7 | 6" AGGREGATE BASE | Ton | 72 | 12.00 | 864.00 |
| | **SCHEDULE 8.0: Farmstead Ring Dike** | **Total** | | | **$20,164.00** |
| | **SCHEDULE 9.0 WETLAND/WOODLAND MITIGATION** | | | | |
| 1 | WETLAND/WOODLAND MITIGATION | Acre | 4 | 8712.00 | 34,848.00 |
| **T** | **SCHEDULE 9.0 WETLAND/WOODLAND MITIGATION--TOTAL** | | | | **$34,848.00** |

| **BID SUMMARY** | |
|---|---|
| **SCHEDULE 1.0 RIGHT OF WAY** | $328,500.00 |
| **SCHEDULE 2.0 FLOODWAY** | $1,728,430.00 |
| **SCHEDULE 3.0 FLOODWAY INLET STRUCTURE** | $249,600.00 |
| **SCHEDULE 4.0 ACTIVE CONTROL STRUCTURE** | $1,065,000.00 |
| **SCHEDULE 5.0 IMPROVEMENTS TO ROBERTS CR 24** | $582,490.32 |
| **SCHEDULE 6.0 IMPROVEMENTS TO CSAH 4** | $982,383.80 |
| **SCHEDULE 7.0 LITTLE MINNESOTA RIVER LEVEE** | $274,103.50 |
| **SCHEDULE 8.0: Farmstead Ring Dike** | $20,164.00 |
| **SCHEDULE 9.0 WETLAND/WOODLAND MITIGATION** | $34,848.00 |

| | |
|---|---|
| **SUBTOTAL** | **$5,270,000.00** |
| **15% CONTINGENCIES** | **$790,500.00** |
| **TOTAL CONSTRUCTION COST** | **$6,060,500.00** |
| **15% ENGINEERING, INSPECTION, ADMINISTRATIVE COSTS** | **$909,075.00** |
| **TOTAL COST ESTIMATE** | **$6,970,000.00** |

**COST ESTIMATE FOR:**

**BROWNS VALLEY FLOOD MITIGATION PROJECT** **CITY WELL FIELD IMPROVEMENTS**

**BROWNS VALLEY, MINNESOTA**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 1.0 RIGHT OF WAY** | | | | |
| 1 | RIGHT OF WAY - PERMANENT | Acre | 0 | 3,000.00 | 0.00 |
| 2 | RIGHT OF WAY - TEMPORARY | Acre | 0 | 3,000.00 | 0.00 |
| **T** | **SCHEDULE 1.0 RIGHT OF WAY -- TOTAL** | | | | **$0.00** |
| | **SCHEDULE 2.0 FLOOD PROTECTION WELLS** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 1,000.00 | 1,000.00 |
| 2 | STRIPPING AT WELL RAISINGS | Cu. Yd. | 185 | 2.30 | 425.50 |
| 3 | TOPSOIL AT WELL RAISINGS | Cu. Yd. | 125 | 2.60 | 325.00 |
| 4 | EMBANKMENT (CV) FOR WELL RAISING | Cu. Yd. | 750 | 3.00 | 2,250.00 |
| 5 | SEEDING AND MULCHING | Acre | 0.5 | 1,000.00 | 500.00 |
| 6 | SILT FENCE | Lin. Ft. | 100 | 2.00 | 200.00 |
| **T** | **SCHEDULE 2.0 FLOOD PROTECTION WELLS -- TOTAL** | | | | **$4,700.50** |

**BID SUMMARY**

| | |
|---|---|
| **SCHEDULE 1.0 RIGHT OF WAY** | $0.00 |
| **SCHEDULE 2.0 FLOOD PROTECTION WELLS** | $4,700.50 |
| **SUBTOTAL** | **$4,800.00** |
| **15% CONTINGENCIES** | **$720.00** |
| **TOTAL CONSTRUCTION COST** | **$5,520.00** |
| **15% ENGINEERING, INSPECTION, ADMINISTRATIVE COSTS** | **$828.00** |
| **TOTAL COST ESTIMATE** | **$6,400.00** |

**COST ESTIMATE FOR:**

**BROWNS VALLEY FLOOD MITIGATION PROJECT, BROWNS VALLEY, MINNESOTA**

**TOELLE COULEE ALTERNATIVE 1 - WEST LEVEES**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 1.0 RIGHT OF WAY** | | | | |
| 1 | RIGHT OF WAY - PERMANENT | Acre | 3.5 | 3,000.00 | 10,500.00 |
| 2 | RIGHT OF WAY - TEMPORARY | Acre | 8.4 | 300.00 | 2,520.00 |
| **T** | **SCHEDULE 1.0 RIGHT OF WAY -- TOTAL** | | | | **$13,020.00** |
| | **SCHEDULE 2.0 LEVEE WEST OF CSAH 2** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 2 | CLEARING AND GRUBBING | Acre | 3 | 3,000.00 | 9,000.00 |
| 3 | STRIPPING | Cu. Yd. | 1749 | 1.15 | 2,011.44 |
| 4 | TOPSOIL | Cu. Yd. | 1166 | 1.30 | 1,515.86 |
| 5 | UNCLASSIFIED EXCAVATION (KEY TRENCH) | Cu. Yd. | 2728 | 2.25 | 6,137.08 |
| 6 | IMPERVIOUS FILL | Cu. Yd. | 12042 | 3.00 | 36,126.00 |
| 7 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 100 | 2.00 | 200.00 |
| 8 | SEEDING | Acre | 12.3 | 80.00 | 983.65 |
| 9 | SEED MIXTURE 100 SERIES | Lb. | 615 | 2.00 | 1,229.57 |
| 10 | SEED MIXTURE 200 SERIES | Lb. | 615 | 2.50 | 1,536.96 |
| 11 | MULCH MATERIAL TYPE 1 | Ton | 24.6 | 110.00 | 2,705.05 |
| 12 | DISK ANCHORING | Acre | 12.3 | 20.00 | 245.91 |
| 13 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 14 | WATER CONTROL | Lump Sum | 1 | 1,000.00 | 1,000.00 |
| **T** | **SCHEDULE 2.0 LEVEE WEST OF CSAH 2 -- TOTAL** | | | | **$74,091.53** |
| | **SCHEDULE 3.0 LEVEE SOUTH OF TH 28** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 2 | CLEARING AND GRUBBING | Acre | 1 | 3,000.00 | 3,000.00 |
| 3 | STRIPPING | Cu. Yd. | 1481 | 1.15 | 1,703.70 |
| 4 | TOPSOIL | Cu. Yd. | 1185 | 1.30 | 1,540.74 |
| 5 | UNCLASSIFIED EXCAVATION (KEY TRENCH) | Cu. Yd. | 3259 | 2.25 | 7,333.33 |
| 6 | IMPERVIOUS FILL | Cu. Yd. | 4300 | 3.00 | 12,900.00 |
| 7 | 4-FT. X 6-FT RC BOX CULVERTS (2) | L.F. | 84 | 403.00 | 33,852.00 |
| 8 | CULVERT END SECTIONS | Lump Sum | 2 | 3,322.00 | 6,644.00 |
| 9 | FLAP GATE | Lump Sum | 2 | 2,500.00 | 5,000.00 |
| 10 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 100 | 2.00 | 200.00 |
| 11 | SEEDING | Acre | 11.0 | 80.00 | 882 |
| 12 | SEED MIXTURE 100 SERIES | Lb. | 551 | 2.00 | 1,102 |
| 13 | SEED MIXTURE 200 SERIES | Lb. | 551 | 2.50 | 1,377 |
| 14 | MULCH MATERIAL TYPE 1 | Ton | 22.0 | 110.00 | 2,424.24 |
| 15 | DISK ANCHORING | Acre | 11.0 | 20.00 | 220.39 |
| 16 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 17 | WATER CONTROL | Lump Sum | 1 | 1,000.00 | 1,000.00 |
| **T** | **SCHEDULE 3.0 LEVEE SOUTH OF TH28 -- TOTAL** | | | | **$90,579.29** |

**COST ESTIMATE FOR:**

**BROWNS VALLEY FLOOD MITIGATION PROJECT, BROWNS VALLEY, MINNESOTA**

**TOELLE COULEE ALTERNATIVE 1 - WEST LEVEES**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 4.0 CULVERT - DRIVEWAY** | | | | |
| 1 | REMOVE BITUMINOUS PAVEMENT | Sq. Yd. | 231 | 2.00 | 462.00 |
| 2 | COMMON EXCAVATION AND FILL | Cu. Yd. | 812 | 3.00 | 2,436.00 |
| 3 | REMOVE EXISTING 24" RCP | L.F. | 80.6 | 6.06 | 488.44 |
| 3 | 6-FT. X 12 FT. RC BOX (2) | L.F. | 50 | 800.00 | 40,000.00 |
| 4 | CULVERT END SECTIONS | Lump Sum | 4 | 10,000.00 | 40,000.00 |
| 5 | SELECT GRANULAR BORROW (CV) | Cu. Yd. | 77 | 12.00 | 924.00 |
| 6 | GEOTEXTILE FABRIC, TYPE V | Sq. Yd. | 231 | 1.50 | 346.50 |
| 7 | 6" AGGREGATE BASE, CLASS 5 (CV) | Ton | 73 | 12.00 | 873.18 |
| **T** | **SCHEDULE 4.0 CULVERT REPLACEMENT - DRIVEWAY -- TOTAL** | | | | **$85,530.12** |
| | **SCHEDULE 5.0 CULVERT - TH 28** | | | | |
| 1 | REMOVE BITUMINOUS PAVEMENT | Sq. Yd. | 272 | 2.00 | 544.00 |
| 2 | COMMON EXCAVATION AND FILL | Cu. Yd. | 1570 | 5.00 | 7,850.00 |
| 3 | 4-FT. X 8-FT RC BOX CULVERTS (4) | L.F. | 236 | 436.80 | 103,084.80 |
| 4 | CULVERT END SECTIONS | Lump Sum | 8 | 4,928.00 | 39,424.00 |
| 5 | SELECT GRANULAR BORROW (CV) | Cu. Yd. | 91 | 12.00 | 1,088.00 |
| 6 | GEOTEXTILE FABRIC, TYPE V | Sq. Yd. | 272 | 1.50 | 408.00 |
| 7 | 6" AGGREGATE BASE, CLASS 5 (CV) | Ton | 85.68 | 12.00 | 1,028.16 |
| 8 | TYPE 41 WEARING COURSE MIXTURE | Ton | 22.44 | 52.81 | 1,185.06 |
| 9 | TYPE 31 BASE COURSE MIXTURE | Ton | 30 | 50.78 | 1,519.34 |
| 10 | BITUMINOUS MATERIAL FOR TACK COAT | Gal. | 14 | 2.00 | 27.20 |
| 11 | TRAFFIC CONTROL | Lump Sum | 1 | 20,000.00 | 20,000.00 |
| **T** | **SCHEDULE 5.0 CULVERT - TH 28 -- TOTAL** | | | | **$176,158.55** |
| | **SCHEDULE 6.0 FLUME** | | | | |
| 1 | CONCRETE | Cu. Yd. | 550 | 500.00 | 275,000.00 |
| 2 | RIPRAP | Cu. Yd. | 1670 | 50.00 | 83,500.00 |
| **T** | **SCHEDULE 6.0 FLUME -- TOTAL** | | | | **$358,500.00** |
| | **SCHEDULE 7.0 WEST DITCH FLOODWAY** | | | | |
| 1 | COMMON EXCAVATION (CUT RAILROAD) | Cu. Yd. | 289 | 5.00 | 1,445.00 |
| 2 | CHANNEL WORK (TH28 TO DRIVEWAY) | Cu. Yd. | 1620 | 2.00 | 3,240.00 |
| 3 | DITCH CLEANING | L.F. | 2280 | 1.75 | 3,990.00 |
| 4 | PERMANENT ROW | Acre | 11.6 | 3,000.00 | 34,800.00 |
| 5 | TEMPORARY ROW | Acre | 1.8 | 300.00 | 528.00 |
| **T** | **SCHEDULE 7.0 WEST DITCH FLOODWAY -- TOTAL** | | | | **$44,003.00** |

**COST ESTIMATE FOR:**

**BROWNS VALLEY FLOOD MITIGATION PROJECT, BROWNS VALLEY, MINNESOTA**

**TOELLE COULEE ALTERNATIVE 1 - WEST LEVEES**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 8.0 WETLAND/WOODLAND MITIGATION** | | | | |
| 1 | WETLAND/WOODLAND MITIGATION | Acre | 1 | 8712.00 | 8,712.00 |
| **T** | **SCHEDULE 8.0 WETLAND/WOODLAND MITIGATION--TOTAL** | | | | **$8,712.00** |

**BID SUMMARY**

| | |
|---|---|
| **SCHEDULE 1.0 RIGHT OF WAY** | $13,020.00 |
| **SCHEDULE 2.0 LEVEEs WEST OF TH28** | $74,091.53 |
| **SCHEDULE 3.0 LEVEE SOUTH OF TH 28** | $90,579.29 |
| **SCHEDULE 4.0 CULVERT REPLACEMENT - DRIVEWAY** | $85,530.12 |
| **SCHEDULE 5.0 CULVERT REPLACEMENT - TH 28** | $176,158.55 |
| **SCHEDULE 6.0 FLUME** | $358,500.00 |
| **SCHEDULE 7.0 WEST DITCH FLOODWAY** | $44,003.00 |
| **SCHEDULE 8.0 WETLAND/WOODLAND MITIGATION** | $8,712.00 |
| **SUBTOTAL** | **$851,000.00** |
| **15% CONTINGENCIES** | **$127,650.00** |
| **TOTAL CONSTRUCTION COST** | **$978,650.00** |
| **15% ENGINEERING, INSPECTION, ADMINISTRATIVE COSTS** | **$146,797.50** |
| **TOTAL COST ESTIMATE** | **$1,130,000.00** |

**COST ESTIMATE FOR:**

**BROWNS VALLEY FLOOD MITIGATION PROJECT, BROWNS VALLEY, MINNESOTA**

**TOELLE COULEE ALTERNATIVE 2 - EAST LEVEE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 1.0 RIGHT OF WAY** | | | | |
| 1 | RIGHT OF WAY - PERMANENT | Acre | 2.4 | 3,000.00 | 7,200.00 |
| 2 | RIGHT OF WAY - TEMPORARY | Acre | 5.8 | 300.00 | 1,742.42 |
| **T** | **SCHEDULE 1.0 RIGHT OF WAY -- TOTAL** | | | | **$8,942.42** |
| | **SCHEDULE 2.0 LEVEE EAST OF CSAH 2** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 2 | CLEARING AND GRUBBING | Acre | 0.5 | 3,000.00 | 1,500.00 |
| 3 | STRIPPING | Cu. Yd. | 900 | 1.15 | 1,035.00 |
| 4 | TOPSOIL | Cu. Yd. | 810 | 1.30 | 1,053.00 |
| 5 | UNCLASSIFIED EXCAVATION (KEY TRENCH) | Cu. Yd. | 1894 | 2.25 | 4,262.50 |
| 6 | IMPERVIOUS FILL | Cu. Yd. | 5300 | 3.00 | 15,900.00 |
| 7 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 100 | 2.00 | 200.00 |
| 8 | SEEDING | Acre | 8.5 | 80.00 | 683.20 |
| 9 | SEED MIXTURE 100 SERIES | Lb. | 427.0 | 2.00 | 853.99 |
| 10 | SEED MIXTURE 200 SERIES | Lb. | 427.0 | 2.50 | 1,067.49 |
| 11 | MULCH MATERIAL TYPE 1 | Ton | 17.1 | 110.00 | 1,878.79 |
| 12 | DISK ANCHORING | Acre | 8.5 | 20.00 | 170.80 |
| 13 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 14 | WATER CONTROL | Lump Sum | 1 | 5,000.00 | 5,000.00 |
| **T** | **SCHEDULE 2.0 LEVEE EAST OF CSAH 2 -- TOTAL** | | | | **$45,004.77** |
| | **SCHEDULE 3.0 LEVEE SOUTH OF TH 28** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 10,000.00 | 10,000.00 |
| 2 | CLEARING AND GRUBBING | Acre | 1 | 3,000.00 | 3,000.00 |
| 3 | STRIPPING | Cu. Yd. | 1481 | 1.15 | 1,703.70 |
| 4 | TOPSOIL | Cu. Yd. | 1185 | 1.30 | 1,540.74 |
| 5 | UNCLASSIFIED EXCAVATION (KEY TRENCH) | Cu. Yd. | 3259 | 2.25 | 7,333.33 |
| 6 | IMPERVIOUS FILL | Cu. Yd. | 4300 | 3.00 | 12,900.00 |
| 7 | 4-FT. X 6-FT RC BOX CULVERTS (2) | L.F. | 84 | 403.00 | 33,852.00 |
| 8 | CULVERT END SECTIONS | Lump Sum | 2 | 3,322.00 | 6,644.00 |
| 9 | FLAP GATE | Lump Sum | 2 | 2,500.00 | 5,000.00 |
| 10 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 100 | 2.00 | 200.00 |
| 11 | SEEDING | Acre | 11.0 | 80.00 | 882 |
| 12 | SEED MIXTURE 100 SERIES | Lb. | 551 | 2.00 | 1,102 |
| 13 | SEED MIXTURE 200 SERIES | Lb. | 551 | 2.50 | 1,377 |
| 14 | MULCH MATERIAL TYPE 1 | Ton | 22.0 | 110.00 | 2,424.24 |
| 15 | DISK ANCHORING | Acre | 11.0 | 20.00 | 220.39 |
| 16 | EROSION CONTROL BLANKET | Sq. Yd. | 1000 | 1.40 | 1,400.00 |
| 17 | WATER CONTROL | Lump Sum | 1 | 1,000.00 | 1,000.00 |

**COST ESTIMATE FOR:**

**BROWNS VALLEY FLOOD MITIGATION PROJECT, BROWNS VALLEY, MINNESOTA**

**TOELLE COULEE ALTERNATIVE 2 - EAST LEVEE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| **T** | **SCHEDULE 3.0 LEVEE SOUTH OF CSAH 2 -- TOTAL** | | | | **$90,579.29** |
| | **SCHEDULE 4.0 CULVERT - CSAH 2** | | | | |
| 1 | REMOVE BITUMINOUS PAVEMENT | Sq. Yd. | 452 | 2.00 | 904.00 |
| 2 | COMMON EXCAVATION AND FILL | Cu. Yd. | 27854 | 5.00 | 139,270.00 |
| 3 | 12-FT. X 12 FT. RC BOX | L.F. | 176 | 1,088.10 | 191,505.60 |
| 4 | CULVERT END SECTIONS | Lump Sum | 2 | 18,879.00 | 37,758.00 |
| 5 | SELECT GRANULAR BORROW (CV) | Cu. Yd. | 151 | 12.00 | 1,808.00 |
| 6 | GEOTEXTILE FABRIC, TYPE V | Sq. Yd. | 452 | 1.50 | 678.00 |
| 7 | 6" AGGREGATE BASE, CLASS 5 (CV) | Ton | 142 | 12.00 | 1,708.56 |
| 8 | TYPE 41 WEARING COURSE MIXTURE | Ton | 37 | 52.81 | 1,969.28 |
| 9 | TYPE 31 BASE COURSE MIXTURE | Ton | 50 | 50.78 | 2,524.78 |
| 10 | BITUMINOUS MATERIAL FOR TACK COAT | Gal. | 23 | 2.00 | 45.20 |
| 11 | EROSION CONTROL | Sq. Yd. | 14520 | 1.40 | 20,328.00 |
| 12 | TRAFFIC CONTROL | Lump Sum | 1 | 20,000.00 | 20,000.00 |
| **T** | **SCHEDULE 4.0 CULVERT REPLACEMENT - CSAH 2 -- TOTAL** | | | | **$418,499.43** |
| | **SCHEDULE 5.0 CULVERT REPLACEMENT - TH 28** | | | | |
| 1 | REMOVE BITUMINOUS PAVEMENT | Sq. Yd. | 368 | 2.00 | 736.21 |
| 2 | COMMON EXCAVATION AND FILL | Cu. Yd. | 2930 | 5.00 | 14,648.86 |
| 3 | REMOVE EXISTING 4 - 60" RCP | L.F. | 280 | 6.06 | 1,696.80 |
| 3 | 7-FT. X 12-FT RC BOX CULVERTS (3) | L.F. | 168 | 776.10 | 130,384.80 |
| 4 | CULVERT END SECTIONS | Lump Sum | 6 | 10,954.00 | 65,724.00 |
| 5 | SELECT GRANULAR BORROW (CV) | Cu. Yd. | 123 | 12.00 | 1,472.43 |
| 6 | GEOTEXTILE FABRIC, TYPE V | Sq. Yd. | 368 | 1.50 | 552.16 |
| 7 | 6" AGGREGATE BASE, CLASS 5 (CV) | Ton | 115.9536 | 12.00 | 1,391.44 |
| 8 | TYPE 41 WEARING COURSE MIXTURE | Ton | 30.3688 | 52.81 | 1,603.78 |
| 9 | TYPE 31 BASE COURSE MIXTURE | Ton | 40 | 50.78 | 2,056.17 |
| 10 | BITUMINOUS MATERIAL FOR TACK COAT | Gal. | 18 | 2.00 | 36.81 |
| 11 | TRAFFIC CONTROL | Lump Sum | 1 | 20,000.00 | 20,000.00 |
| **T** | **SCHEDULE 5.0 CULVERT REPLACEMENT - TH 28 -- TOTAL** | | | | **$240,303.46** |
| | **SCHEDULE 6.0 WEST DITCH FLOODWAY** | | | | |
| 1 | COMMON EXCAVATION (CUT RAILROAD) | Cu. Yd. | 289 | 5.00 | 1,445.00 |
| 2 | CHANNEL WORK (TH28 TO DRIVEWAY) | Cu. Yd. | 1620 | 2.00 | 3,240.00 |
| 3 | DITCH CLEANING | L.F. | 2280 | 1.75 | 3,990.00 |
| 4 | PERMANENT ROW | Acre | 11.6 | 3,000.00 | 34,800.00 |
| 5 | TEMPORARY ROW | Acre | 1.8 | 300.00 | 528.00 |
| **T** | **SCHEDULE 6.0 WEST DITCH FLOODWAY -- TOTAL** | | | | **$44,003.00** |

**COST ESTIMATE FOR:**

**BROWNS VALLEY FLOOD MITIGATION PROJECT, BROWNS VALLEY, MINNESOTA**

**TOELLE COULEE ALTERNATIVE 2 - EAST LEVEE**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 7.0 WETLAND/WOODLAND MITIGATION** | | | | |
| 1 | WETLAND/WOODLAND MITIGATION | Acre | 1 | 8712.00 | 8,712.00 |
| **T** | **SCHEDULE 7.0 WETLAND/WOODLAND MITIGATION--TOTAL** | | | | **$8,712.00** |
| | **BID SUMMARY** | | | | |
| | **SCHEDULE 1.0 RIGHT OF WAY** | | | | $8,942.42 |
| | **SCHEDULE 2.0 LEVEE EAST OF CSAH 2** | | | | $45,004.77 |
| | **SCHEDULE 3.0 LEVEE SOUTH OF TH 28** | | | | $90,579.29 |
| | **SCHEDULE 4.0 CULVERT REPLACEMENT - CSAH 2** | | | | $418,499.43 |
| | **SCHEDULE 5.0 CULVERT REPLACEMENT - TH 28** | | | | $240,303.46 |
| | **SCHEDULE 6.0 WEST DITCH FLOODWAY** | | | | $44,003.00 |
| | **SCHEDULE 7.0 WETLAND/WOODLAND MITIGATION** | | | | $8,712.00 |
| | | | | **SUBTOTAL** | **$857,000.00** |
| | | | | **15% CONTINGENCIES** | **$128,550.00** |
| | | | | **TOTAL CONSTRUCTION COST** | **$985,550.00** |
| | | | | **15% ENGINEERING, INSPECTION, ADMINISTRATIVE COSTS** | **$147,832.50** |
| | | | | **TOTAL COST ESTIMATE** | **$1,140,000.00** |

**COST ESTIMATE FOR:**

**BROWNS VALLEY FLOOD MITIGATION PROJECT, BROWNS VALLEY, MINNESOTA**

**TOELLE COULEE ALTERNATIVE 3 - IMPOUNDMENT**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 1.0 RIGHT OF WAY** | | | | |
| 1 | RIGHT OF WAY - PERMANENT | Acre | 18 | 3,000.00 | 54,000.00 |
| 2 | RIGHT OF WAY - TEMPORARY | Acre | 2 | 300.00 | 600.00 |
| **T** | **SCHEDULE 1.0 RIGHT OF WAY -- TOTAL** | | | | **$54,600.00** |
| | **SCHEDULE 2.0 DAM AND CSAH 2 CULVERT REPLACEMENT** | | | | |
| 1 | MOBILIZATION | Lump Sum | 1 | 50,000.00 | 50,000.00 |
| 2 | CLEARING AND GRUBBING | Acre | 1.5 | 3,000.00 | 4,500.00 |
| 3 | STRIPPING | Cu. Yd. | 1300 | 1.15 | 1,495.00 |
| 4 | TOPSOIL | Cu. Yd. | 1050 | 1.30 | 1,365.00 |
| 5 | UNCLASSIFIED EXCAVATION (KEY TRENCH) | Cu. Yd. | 1019 | 2.25 | 2,291.67 |
| 6 | REMOVE EXISTING 60" RCP (CSAH 2) | L.F. | 324 | 6.06 | 1,963.44 |
| 7 | REMOVE BITUMINOUS PAVEMENT | Sq. Yd. | 547 | 2.00 | 1,094.00 |
| 8 | COMMON EXCAVATION AND FILL | Cu. Yd. | 67333 | 5.00 | 336,663.52 |
| 9 | EMBANKMENT IMPERVIOUS CLAY FILL (P) | Cu. Yd. | 46000 | 3.00 | 138,000.00 |
| 10 | PRESTRESSED CONCRETE CYLINDER PIPE - 60" DIA. SP-12 TYPE DEEP JOINT | L.F. | 60 | 399.00 | 23,940.00 |
| 11 | PRESTRESSED CONCRETE CYLINDER PIPE - 60" DIA. SP-12 TYPE DEEP JOINT | L.F. | 264 | 399.00 | 105,336.00 |
| 12 | STRUCTURAL CONTRETE RISER | Cu. Yd. | 86 | 500.00 | 43,000.00 |
| 13 | INLET DEBRIS RACK | L.S. | 1 | 2,476.12 | 2,476.12 |
| 14 | RISER TRASH RACK | L.S. | 1 | 2,476.12 | 2,476.12 |
| 15 | STRUCTURAL CONTRETE - OUTLET | Cu. Yd. | 145 | 500.00 | 72,500.00 |
| 16 | REINFORCING STEEL - OULET | Lb. | 26281 | 0.60 | 15,768.60 |
| 17 | CHAIN-LINK FENCING | L.F. | 127 | 15.00 | 1,905.00 |
| 18 | SELECT GRANULAR BORROW (CV) | Cu. Yd. | 182 | 12.00 | 2,188.00 |
| 19 | GEOTEXTILE FABRIC, TYPE V | Sq. Yd. | 547 | 1.50 | 820.50 |
| 20 | 6" AGGREGATE BASE, CLASS 5 (CV) | Ton | 172 | 12.00 | 2,067.66 |
| 21 | TYPE 41 WEARING COURSE MIXTURE | Ton | 45.1275 | 52.81 | 2,383.18 |
| 22 | TYPE 31 BASE COURSE MIXTURE | Ton | 60 | 50.78 | 3,055.43 |
| 23 | BITUMINOUS MATERIAL FOR TACK COAT | Gal. | 27 | 2.00 | 54.70 |
| 24 | TRAFFIC CONTROL | Lump Sum | 1 | 15,000.00 | 15,000.00 |
| 25 | SILT FENCE, TYPE MACHINE SLICED | Lin. Ft. | 500 | 4.00 | 2,000.00 |
| 26 | TEMPORARY DITCH CHECK | Lin. Ft. | 300 | 5.00 | 1,500.00 |
| 27 | SEEDING | Acre | 8 | 80.00 | 640.00 |
| 28 | SEED MIXTURE 200 SERIES | Lb. | 800 | 2.50 | 2,000.00 |
| 29 | MULCH MATERIAL TYPE 1 | Ton | 2 | 110.00 | 220.00 |
| 30 | DISK ANCHORING | Acre | 1 | 55.00 | 55.00 |
| 31 | EROSION CONTROL | Sq. Yd. | 14520 | 1.40 | 20,328.00 |
| 32 | WATER CONTROL | L.S. | 1 | 10,000.00 | 10,000.00 |
| 33 | SMALL UTILITY RELOCATION | L.S. | 1 | 5,000.00 | 5,000.00 |
| **T** | **SCHEDULE 2.0 -- TOTAL** | | | | **$872,086.94** |

**COST ESTIMATE FOR:**

**BROWNS VALLEY FLOOD MITIGATION PROJECT, BROWNS VALLEY, MINNESOTA**

**TOELLE COULEE ALTERNATIVE 3 - IMPOUNDMENT**

**CLIENT: UPPER MINNESOTA RIVER WATERSHED DISTRICT** January 17, 2008

| Item | Item Description | Unit | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| | **SCHEDULE 3.0 WEST DITCH FLOODWAY** | | | | |
| 1 | COMMON EXCAVATION (CUT RAILROAD) | Cu. Yd. | 289 | 5.00 | 1,445.00 |
| 2 | CHANNEL WORK (TH28 TO DRIVEWAY) | Cu. Yd. | 1620 | 2.00 | 3,240.00 |
| 3 | DITCH CLEANING | L.F. | 2280 | 1.75 | 3,990.00 |
| 4 | PERMANENT ROW | Acre | 11.6 | 3,000.00 | 34,800.00 |
| 5 | TEMPORARY ROW | Acre | 1.8 | 300.00 | 528.00 |
| **T** | **SCHEDULE 3.0 WEST DITCH FLOODWAY -- TOTAL** | | | | **$44,003.00** |
| | **SCHEDULE 4.0 WETLAND/WOODLAND MITIGATION** | | | | |
| 1 | WETLAND/WOODLAND MITIGATION | Acre | 1 | 8712.00 | 8,712.00 |
| **T** | **SCHEDULE 4.0 WETLAND/WOODLAND MITIGATION--TOTAL** | | | | **$8,712.00** |

**BID SUMMARY**

| | |
|---|---|
| **SCHEDULE 1.0 RIGHT OF WAY** | $54,600.00 |
| **SCHEDULE 2.0 DAM** | $872,086.94 |
| **SCHEDULE 3.0 WEST DITCH FLOODWAY** | $44,003.00 |
| **SCHEDULE 4.0 WETLAND/WOODLAND MITIGATION** | $8,712.00 |
| **SUBTOTAL** | **$980,000.00** |
| **15% CONTINGENCIES** | **$147,000.00** |
| **TOTAL CONSTRUCTION COST** | **$1,127,000.00** |
| **20% ENGINEERING, INSPECTION, ADMINISTRATIVE COSTS** | **$225,400.00** |
| **TOTAL COST ESTIMATE** | **$1,360,000.00** |