

**FUSS & O'NEILL, INC.**  
146 HARTFORD ROAD  
MANCHESTER, CONNECTICUT

OPINION OF CONSTRUCTION COST		DATE PREPARED :		12-Nov-09	
<b>Type: Budget</b>					
PROJECT : Fyfreshire Pond Phase II		BASIS : R.S. Means, Previous Project Cost Data			
LOCATION : Bolton, MA					
DESCRIPTION: Alternative 1.1					
DRAWING NO. C1.1		ESTIMATOR : DRB/KCB		CHECKED BY : PWM	
<p><b>OPINION OF CONSTRUCTION COST - BUDGET:</b> An opinion of cost based on design information available early in the design process. It can be used by an owner to establish his budget. It is normally expected that an estimate of this type would be accurate to within plus 30% or minus 15%. Since Fuss &amp; O'Neill has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor(s)' methods of determining prices, or over competitive bidding or market conditions, Fuss &amp; O'Neill's opinion of probable Total Project Costs and Construction Costs are made on the basis of Fuss &amp; O'Neill's experience and qualifications and represent Fuss &amp; O'Neill's best judgment as an experienced and qualified professional engineer, familiar with the construction industry, but Fuss &amp; O'Neill cannot and does not guarantee that proposals, bids or actual Total Project or Construction Costs will not vary from opinions of probable cost prepared by Fuss &amp; O'Neill. If prior to the bidding or negotiating Phase the Owner wishes greater assurance as to Total Project or Construction Costs, the Owner shall employ an independent cost estimator.</p>					
ITEM NO.	ITEM	UNIT MEAS.	NO. UNITS	PER UNIT	TOTAL COST
<b>SOIL AND EROSION CONTROL</b>					
	Sedimentation and Erosion Control	L.S.	1	\$ 1,500.00	\$1,500.00
<b>WATER CONTROL</b>					
	Control of Water	L.S.	1	\$ 32,000.00	\$32,000.00
	Dewatering	L.S.	1	\$ 26,000.00	\$26,000.00
<b>SITE PREPARATION WORK</b>					
	Access Road Improvements	L.S.	1	\$ 3,500.00	\$3,500.00
	Clearing and Grubbing	EA	20	\$ 475.00	\$9,500.00
<b>DEMOLITION</b>					
	Concrete (assumes off-site disposal)	C.Y.	21.5	\$ 750.00	\$16,125.00
	Disassemble Rubble Masonry Wall	C.F.	900	\$ 4.50	\$4,050.00
<b>EARTHWORK</b>					
	Sediment excavation (assumes on-site disposal)	C.Y.	170	\$ 15.00	\$2,550.00
	Embankment excavation with on-site stockpiling for reuse	C.Y.	500	\$ 15.00	\$7,500.00
	Reconstruct embankment	C.Y.	500	\$ 20.00	\$10,000.00
<b>DRAINAGE</b>					
	Toe Drain, 6-inch perf. PVC	L.F.	60	\$ 40.00	\$2,400.00
	Sand drainage layer	C.Y.	25	\$ 33.00	\$825.00
	Filter Fabric or Reverse Filter	S.F.	500	\$ 6.75	\$3,375.00
<b>MASONRY</b>					
	Reconstruct dry placed stone masonry wall	C.F.	900	\$ 12.00	\$10,800.00
<b>ARMOR UPSTREAM FACE</b>					
	Filter Fabric	S.F.	650	\$ 5.00	\$3,250.00
	Bedding Material, 12-inch layer	C.Y.	24	\$ 40.00	\$960.00
	Riprap, 12-inch layer	C.Y.	24	\$ 50.00	\$1,200.00
<b>CAST-IN-PLACE SPILLWAY</b>					
	Reinforced Concrete Spillway Structure	C.Y.	40	\$ 500.00	\$20,000.00
	Cut-off walls	C.Y.	10	\$ 650.00	\$6,500.00
	Stoplogs	S.F.	12	\$ 19.10	\$229.20
	Inlet Pipe - 12-inch CLDIP	L.F.	40	\$ 60.50	\$2,420.00
	Trash-rack	L.S.	1	\$ 600.00	\$600.00
	Hold-down blocks	EA	3	\$ 350.00	\$1,050.00
	Unseating head canal gate	EA	1	\$ 2,500.00	\$2,500.00
	Footbridge	L.S.	1	\$ 12,000.00	\$12,000.00
<b>ACCESS ROAD</b>					
	Access from Wattaquodock Hill Road	LS	1	\$ 38,000.00	\$38,000.00
	Permanent Access Easement from Abutter	LS	1	\$ 20,000.00	\$20,000.00
<b>SITE STABILIZATION WORK</b>					
	Seed embankment	S.F.	2500	\$ 0.20	\$500.00
	Wetland Restoration	S.F.	100	\$ 2.50	\$250.00
<b>GENERAL CONDITIONS</b>					
	Mobilization & Demobilization	L.S.	1	\$ 20,000.00	\$20,000.00
<b>ENGINEERING/PERMITTING</b>					
	Engineering	L.S.	1	\$ 60,000.00	\$60,000.00
	Permitting				
	Wetland Protection Act	EA	1	\$ 6,000.00	\$6,000.00
	401 Water Quality Certification	EA	1	\$ 3,000.00	\$3,000.00
	Endangered Species	EA	1	\$ 4,000.00	\$4,000.00
	Dam Safety Permit	EA	1	\$ 2,000.00	\$2,000.00
	FEMA LOMR	EA	1	\$ 7,000.00	\$7,000.00
	Construction Admin	L.S.	1	\$ 30,000.00	\$30,000.00
	Dam Safety Inspections every 5 years for 50 years	Present Value	P/A, 4%, 50yr	\$5000/5yr	\$19,800.00
	Annual Maintenance for 50 years	Present Value	P/A, 4%, 50yr	\$1000/yr	\$21,500.00
	SUBTOTAL				\$412,884.20
	CONTINGENCY (20%)				\$82,576.84
	TOTAL COST (ROUNDED TO NEAREST \$1,000)				\$495,000.00
				RANGE	\$421,000.00 \$644,000.00

**FUSS & O'NEILL, INC.**  
146 HARTFORD ROAD  
MANCHESTER, CONNECTICUT

OPINION OF CONSTRUCTION COST		DATE PREPARED :		12-Nov-09		
<b>Type: Budget</b>						
PROJECT : Fyfeshire Pond Phase II		BASIS : R.S. Means, Previous Project Cost Data				
LOCATION : Bolton, MA						
DESCRIPTION: Alternative 1.2						
DRAWING NO. C1.2		ESTIMATOR : DRB/KCB		CHECKED BY : PWM		
<p><b>OPINION OF CONSTRUCTION COST - BUDGET:</b> An opinion of cost based on design information available early in the design process. It can be used by an owner to establish his budget. It is normally expected that an estimate of this type would be accurate to within plus 30% or minus 15%. Since Fuss &amp; O'Neill has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor(s) methods of determining prices, or over competitive bidding or market conditions, Fuss &amp; O'Neill's opinion of probable Total Project Costs and Construction Costs are made on the basis of Fuss &amp; O'Neill's experience and qualifications and represent Fuss &amp; O'Neill's best judgment as an experienced and qualified professional engineer, familiar with the construction industry, but Fuss &amp; O'Neill cannot and does not guarantee that proposals, bids or actual Total Project or Construction Costs will not vary from opinions of probable cost prepared by Fuss &amp; O'Neill. If prior to the bidding or negotiating Phase the Owner wishes greater assurance as to Total Project or Construction Costs, the Owner shall employ an independent cost estimator.</p>						
ITEM NO.	ITEM	UNIT MEAS.	NO. UNITS	PER UNIT	TOTAL COST	
<b>SOIL AND EROSION CONTROL</b>						
	Sedimentation and Erosion Control	L.S.	1	\$ 1,500.00	\$1,500.00	
<b>WATER CONTROL</b>						
	Control of Water	L.S.	1	\$ 32,000.00	\$32,000.00	
	Dewatering	L.S.	1	\$ 18,000.00	\$18,000.00	
<b>SITE PREPARATION WORK</b>						
	Access Road Improvements	L.S.	1	3,500.00	\$3,500.00	
	Clearing and Grubbing	EA	20	475.00	\$9,500.00	
<b>DEMOLITION</b>						
	Concrete (assumes off-site disposal)	C.Y.	21.5	\$ 750.00	\$16,125.00	
	Disassemble Rubble Masonry Wall	C.F.	900	\$ 4.50	\$4,050.00	
<b>EARTHWORK</b>						
	Sediment excavation (assumes on-site disposal)	C.Y.	170	\$ 15.00	\$2,550.00	
	Embankment excavation with on-site stockpiling for reuse	C.Y.	500	\$ 15.00	\$7,500.00	
	Reconstruct embankment	C.Y.	500	\$ 20.00	\$10,000.00	
<b>DRAINAGE</b>						
	Toe Drain, 6-inch perf. PVC	L.F.	60	\$ 40.00	\$2,400.00	
	Sand drainage layer	C.Y.	25	\$ 33.00	\$825.00	
	Filter Fabric or Reverse Filter	S.F.	500	\$ 6.75	\$3,375.00	
<b>MASONRY</b>						
	Reconstruct dry placed stone masonry wall	C.F.	900	12.00	\$10,800.00	
<b>ARMOR UPSTREAM FACE</b>						
	Filter Fabric	S.F.	700	\$ 5.00	\$3,500.00	
	Bedding Material, 12-inch layer	C.Y.	26	\$ 40.00	\$1,040.00	
	Riprap, 12-inch layer	C.Y.	26	\$ 50.00	\$1,300.00	
<b>PRECAST SPILLWAY</b>						
	Reinforced Concrete Spillway Structure	L.S.	1	\$ 21,600.00	\$21,600.00	
	Cut-off walls	C.Y.	10	\$ 650.00	\$6,500.00	
	Cast-in-place weir	C.Y.	1	\$ 500.00	\$500.00	
	Stoplogs	S.F.	12	\$ 19.10	\$229.20	
	Footbridge	L.S.	1	\$ 12,000.00	\$12,000.00	
<b>ACCESS ROAD</b>						
	Access from Wattaquodock Hill Rd.	LS	1	\$ 38,000.00	\$38,000.00	
	Permanent Access Easement from Abutter	LS	1	20,000.00	\$20,000.00	
<b>SITE STABILIZATION WORK</b>						
	Seed embankment	S.F.	2500	\$ 0.20	\$500.00	
	Wetland Restoration	S.F.	100	\$ 2.50	\$250.00	
<b>GENERAL CONDITIONS</b>						
	Mobilization & Demobilization	L.S.	1	25,000.00	\$25,000.00	
<b>ENGINEERING/PERMITTING</b>						
	Engineering	L.S.	1	\$ 60,000.00	\$60,000.00	
	Permitting					
	Wetland Protection Act	EA	1	\$ 6,000.00	\$6,000.00	
	401 Water Quality Certification	EA	1	\$ 3,000.00	\$3,000.00	
	Endangered Species	EA	1	\$ 4,000.00	\$4,000.00	
	Dam Safety Permit	EA	1	\$ 2,000.00	\$2,000.00	
	Construction Admin	L.S.	1	\$ 30,000.00	\$30,000.00	
	Dam Safety Inspections every 5 years for 50 years	Present Value	P/A, 4%, 50yr	\$5000/5yr	\$19,800.00	
	Annual Maintenance for 50 years	Present Value	P/A, 4%, 50yr	\$1000/yr	\$21,500.00	
	SUBTOTAL				\$398,844.20	
	CONTINGENCY (20%)				\$79,768.84	
	TOTAL COST (ROUNDED TO NEAREST \$1,000)				\$479,000.00	
<b>RANGE</b>					<b>\$407,000.00</b>	<b>\$623,000.00</b>

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OPINION OF CONSTRUCTION COST		DATE PREPARED :		12-Nov-09	
<b>Type: Budget</b>					
PROJECT : Fyfreshire Pond Phase II		BASIS : R.S. Means, Previous Project Cost Data			
LOCATION : Bolton, MA					
DESCRIPTION: Alternative 2.1					
DRAWING NO. C2.1		ESTIMATOR : DRB/KCB		CHECKED BY : PWM	
<p><b>OPINION OF CONSTRUCTION COST - BUDGET:</b> An opinion of cost based on design information available early in the design process. It can be used by an owner to establish his budget. It is normally expected that an estimate of this type would be accurate to within plus 30% or minus 15%. Since Fuss &amp; O'Neill has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor(s)' methods of determining prices, or over competitive bidding or market conditions, Fuss &amp; O'Neill's opinion of probable Total Project Costs and Construction Costs are made on the basis of Fuss &amp; O'Neill's experience and qualifications and represent Fuss &amp; O'Neill's best judgment as an experienced and qualified professional engineer, familiar with the construction industry, but Fuss &amp; O'Neill cannot and does not guarantee that proposals, bids or actual Total Project or Construction Costs will not vary from opinions of probable cost prepared by Fuss &amp; O'Neill. If prior to the bidding or negotiating Phase the Owner wishes greater assurance as to Total Project or Construction Costs, the Owner shall employ an independent cost estimator.</p>					
ITEM NO.	ITEM	UNIT MEAS.	NO. UNITS	PER UNIT	TOTAL COST
<b>SOIL AND EROSION CONTROL</b>					
	Sedimentation and Erosion Control	L.S.	1	\$ 1,500.00	\$1,500.00
<b>WATER CONTROL</b>					
	Control of Water	L.S.	1	\$ 32,000.00	\$32,000.00
	Dewatering	L.S.	1	\$ 26,000.00	\$26,000.00
<b>SITE PREPARATION WORK</b>					
	Access Road Improvements	L.S.	1	3,500.00	\$3,500.00
	Clearing and Grubbing	EA	20	475.00	\$9,500.00
<b>DEMOLITION</b>					
	Concrete (assumes off-site disposal)	C.Y.	21.5	\$ 750.00	\$16,125.00
	Disassemble Rubble Masonry Wall	C.F.	900	\$ 4.50	\$4,050.00
<b>EARTHWORK</b>					
	Sediment excavation (assumes on-site disposal)	C.Y.	170	\$ 15.00	\$2,550.00
	Embankment excavation with on-site stockpiling for reuse	C.Y.	500	\$ 15.00	\$7,500.00
	Reconstruct embankment	C.Y.	650	\$ 20.00	\$13,000.00
<b>DRAINAGE</b>					
	Toe Drain, 6-inch perf. PVC	L.F.	60	\$ 40.00	\$2,400.00
	Sand drainage layer	C.Y.	18	\$ 33.00	\$594.00
	Filter Fabric or Reverse Filter	S.F.	240	\$ 6.75	\$1,620.00
<b>ARMOR UPSTREAM FACE</b>					
	Filter Fabric	S.F.	770	\$ 5.00	\$3,850.00
	Bedding Material, 12-inch layer	C.Y.	28	\$ 40.00	\$1,120.00
	Riprap, 12-inch layer	C.Y.	28	\$ 50.00	\$1,400.00
<b>CAST-IN-PLACE SPILLWAY</b>					
	Reinforced Concrete Spillway Structure	C.Y.	54	\$ 500.00	\$27,000.00
	Cut-off walls	C.Y.	10	\$ 650.00	\$6,500.00
	Inlet Pipe - 12-inch CLDIP	L.F.	40	\$ 60.50	\$2,420.00
	Trash-rack	L.S.	1	\$ 600.00	\$600.00
	Hold-down blocks	EA	3	\$ 350.00	\$1,050.00
	Unseating head canal gate	EA	1	\$ 2,500.00	\$2,500.00
	Footbridge	L.S.	1	\$ 12,000.00	\$12,000.00
<b>ACCESS ROAD</b>					
	Access from Wattaquodock Hill Road	LS	1	\$ 38,000.00	\$38,000.00
	Permanent access easement from abutter	LS	1	\$ 20,000.00	\$20,000.00
<b>SITE STABILIZATION WORK</b>					
	Seed embankment	S.F.	2500	\$ 0.20	\$500.00
	Wetland Restoration	S.F.	450	\$ 2.50	\$1,125.00
<b>GENERAL CONDITIONS</b>					
	Mobilization & Demobilization	L.S.	1	20,000.00	\$20,000.00
<b>ENGINEERING/PERMITTING</b>					
	Engineering	L.S.	1	\$ 60,000.00	\$60,000.00
	Permitting				
	Wetland Protection Act	EA	1	\$ 6,000.00	\$6,000.00
	401 Water Quality Certification	EA	1	\$ 3,000.00	\$3,000.00
	Endangered Species	EA	1	\$ 4,000.00	\$4,000.00
	Dam Safety Permit	EA	1	\$ 2,000.00	\$2,000.00
	Construction Admin	L.S.	1	\$ 30,000.00	\$30,000.00
	Dam Safety Inspections every 5 years for 50 years	Present Value	P/A, 4%, 50yr	\$5000/5yr	\$19,800.00
	Annual Maintenance for 50 years	Present Value	P/A, 4%, 50yr	\$1000/yr	\$21,500.00
	<b>SUBTOTAL</b>				\$404,704.00
	<b>CONTINGENCY (20%)</b>				\$80,940.80
	<b>TOTAL COST (ROUNDED TO NEAREST \$1,000)</b>				\$486,000.00
			<b>RANGE</b>	\$413,000.00	\$632,000.00

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146 HARTFORD ROAD  
MANCHESTER, CONNECTICUT

OPINION OF CONSTRUCTION COST		DATE PREPARED :		12-Nov-09	
<b>Type: Budget</b>					
PROJECT : Fyfresh Pond Phase II		BASIS : R.S. Means, Previous Project Cost Data			
LOCATION : Bolton, MA					
DESCRIPTION: Alternative 2.2					
DRAWING NO. C2.2		ESTIMATOR : DRB/KCB		CHECKED BY : PWM	
<p><b>OPINION OF CONSTRUCTION COST - BUDGET:</b> An opinion of cost based on design information available early in the design process. It can be used by an owner to establish his budget. It is normally expected that an estimate of this type would be accurate to within plus 30% or minus 15%. Since Fuss &amp; O'Neill has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor(s)' methods of determining prices, or over competitive bidding or market conditions, Fuss &amp; O'Neill's opinion of probable Total Project Costs and Construction Costs are made on the basis of Fuss &amp; O'Neill's experience and qualifications and represent Fuss &amp; O'Neill's best judgment as an experienced and qualified professional engineer, familiar with the construction industry, but Fuss &amp; O'Neill cannot and does not guarantee that proposals, bids or actual Total Project or Construction Costs will not vary from opinions of probable cost prepared by Fuss &amp; O'Neill. If prior to the bidding or negotiating Phase the Owner wishes greater assurance as to Total Project or Construction Costs, the Owner shall employ an independent cost estimator.</p>					
ITEM NO.	ITEM	UNIT MEAS.	NO. UNITS	PER UNIT	TOTAL COST
<b>SOIL AND EROSION CONTROL</b>					
	Sedimentation and Erosion Control	L.S.	1	\$ 1,500.00	\$1,500.00
<b>WATER CONTROL</b>					
	Control of Water	L.S.	1	\$ 32,000.00	\$32,000.00
	Dewatering	L.S.	1	\$ 21,000.00	\$21,000.00
<b>SITE PREPARATION WORK</b>					
	Permanent Access Easement	Acre	0.5		
	Access Road Improvements	L.S.	1	3,500.00	\$3,500.00
	Clearing and Grubbing	EA	20	\$ 475.00	\$9,500.00
<b>DEMOLITION</b>					
	Concrete (assumes off-site disposal)	C.Y.	21.5	\$ 750.00	\$16,125.00
	Disassemble Rubble Masonry Wall	C.F.	900	\$ 4.50	\$4,050.00
<b>EARTHWORK</b>					
	Sediment excavation (assumes on-site disposal)	C.Y.	170	\$ 15.00	\$2,550.00
	Embankment excavation with on-site stockpiling for reuse	C.Y.	500	\$ 15.00	\$7,500.00
	Reconstruct embankment	C.Y.	650	\$ 20.00	\$13,000.00
<b>DRAINAGE</b>					
	Toe Drain, 6-inch perf. PVC	L.F.	60	\$ 40.00	\$2,400.00
	Sand drainage layer	C.Y.	18	\$ 33.00	\$594.00
	Filter Fabric or Reverse Filter	S.F.	240	\$ 6.75	\$1,620.00
<b>ARMOR UPSTREAM FACE</b>					
	Filter Fabric	S.F.	770	\$ 5.00	\$3,850.00
	Bedding Material, 12-inch layer	C.Y.	28	\$ 40.00	\$1,120.00
	Riprap, 12-inch layer	C.Y.	28	\$ 50.00	\$1,400.00
<b>PRECAST SPILLWAY</b>					
	Reinforced Concrete Spillway Structure	L.S.	1	33,600.00	\$33,600.00
	Cut-off walls	C.Y.	10	650.00	\$6,500.00
	Cast-in-place weir	C.Y.	1	500.00	\$500.00
	Stoplogs	S.F.	12	\$ 19.10	\$229.20
	Footbridge	L.S.	1	\$ 12,000.00	\$12,000.00
<b>ACCESS ROAD</b>					
	Access from Wattaquodock Hill Rd.	LS	1	\$ 38,000.00	\$38,000.00
	Permanent access easement from abutter	LS	1	20,000.00	\$20,000.00
<b>SITE STABILIZATION WORK</b>					
	Seed embankment	S.F.	2500	\$ 0.20	\$500.00
	Wetland Restoration	S.F.	450	\$ 2.50	\$1,125.00
<b>GENERAL CONDITIONS</b>					
	Mobilization & Demobilization	L.S.	1	25,000.00	\$25,000.00
<b>ENGINEERING/PERMITTING</b>					
	Engineering	L.S.	1	\$ 60,000.00	\$60,000.00
	Permitting				
	Wetland Protection Act	EA	1	\$ 6,000.00	\$6,000.00
	401 Water Quality Certification	EA	1	\$ 3,000.00	\$3,000.00
	Endangered Species	EA	1	\$ 4,000.00	\$4,000.00
	Dam Safety Permit	EA	1	\$ 2,000.00	\$2,000.00
	Construction Admin	L.S.	1	\$ 30,000.00	\$30,000.00
	Dam Safety Inspections every 5 years for 50 years	Present Value	P/A, 4%, 50yr	\$5000/5yr	\$19,800.00
	Annual Maintenance for 50 years	Present Value	P/A, 4%, 50yr	\$1000/yr	\$21,500.00
	SUBTOTAL				\$405,463.20
	CONTINGENCY (20%)				\$81,092.64
	TOTAL COST (ROUNDED TO NEAREST \$1,000)				\$487,000.00
				RANGE	\$414,000.00 \$633,000.00

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 146 HARTFORD ROAD  
 MANCHESTER, CONNECTICUT

OPINION OF CONSTRUCTION COST		DATE PREPARED :		12-Nov-09	
<b>Type:</b> Budget					
<b>PROJECT :</b> Fyfreshire Pond Phase II		<b>BASIS :</b> R.S. Means, Previous Project Cost Data			
<b>LOCATION :</b> Bolton, MA					
<b>DESCRIPTION:</b> Alternative 3.0					
<b>DRAWING NO.</b> C3.0		<b>ESTIMATOR :</b> DRB/KCB		<b>CHECKED BY :</b> PWM	
<p><b>OPINION OF CONSTRUCTION COST - BUDGET:</b> An opinion of cost based on design information available early in the design process. It can be used by an owner to establish his budget. It is normally expected that an estimate of this type would be accurate to within plus 30% or minus 15%. Since Fuss &amp; O'Neill has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor(s)' methods of determining prices, or over competitive bidding or market conditions, Fuss &amp; O'Neill's opinion of probable Total Project Costs and Construction Costs are made on the basis of Fuss &amp; O'Neill's experience and qualifications and represent Fuss &amp; O'Neill's best judgment as an experienced and qualified professional engineer, familiar with the construction industry, but Fuss &amp; O'Neill cannot and does not guarantee that proposals, bids or actual Total Project or Construction Costs will not vary from opinions of probable cost prepared by Fuss &amp; O'Neill. If prior to the bidding or negotiating Phase the Owner wishes greater assurance as to Total Project or Construction Costs, the Owner shall employ an independent cost estimator.</p>					
ITEM NO.	ITEM	UNIT MEAS.	NO. UNITS	PER UNIT	TOTAL COST
<b>SOIL AND EROSION CONTROL</b>					
	Sedimentation and Erosion Control	L.S.	1	\$ 1,500.00	\$1,500.00
<b>WATER CONTROL</b>					
	Control of Water	L.S.	1	\$ 32,000.00	\$32,000.00
	Dewatering	L.S.	1	\$ 7,500.00	\$7,500.00
<b>SITE PREPARATION WORK</b>					
	Access Improvements	L.S.	1	3,500.00	\$3,500.00
	Clearing and Grubbing	EA	20	\$ 475.00	\$9,500.00
<b>DEMOLITION</b>					
	Concrete (assumes off-site disposal)	C.Y.	21.5	\$ 750.00	\$16,125.00
	Disassemble Rubble Masonry Wall	C.F.	900	\$ 4.50	\$4,050.00
<b>EARTHWORK</b>					
	Sediment excavation (assumes on-site disposal)	C.Y.	500	\$ 15.00	\$7,500.00
	Embankment excavation and haul offsite	C.Y.	350	\$ 25.00	\$8,750.00
	Armor Bedding	C.Y.	130	\$ 45.00	\$5,850.00
	Channel Armor	C.Y.	130	45.00	\$5,850.00
	Archored logs	EA	11	250.00	\$2,750.00
	Boulder clusers	EA	30	450.00	\$13,500.00
<b>PLANTINGS</b>					
	Live Stakes, assorted native species	SF	1600	0.70	\$1,120.00
	Plant with Wetland Seed Mix	SF	5000	0.05	\$232.50
<b>GENERAL CONDITIONS</b>					
	Mobilization & Demobilization	L.S.	1	22,500.00	\$22,500.00
<b>ENGINEERING/PERMITTING</b>					
	Engineering	L.S.	1	45,000.00	\$45,000.00
	Permitting				
	Wetland Protection Act	EA	1	6,000.00	\$6,000.00
	401 Water Quality Certification	EA	1	3,000.00	\$3,000.00
	404 Compliance (Assume Cat. II PGP only)	EA	1	4,000.00	\$4,000.00
	MEPA (Assume EENF only)	EA	1	7,000.00	\$7,000.00
	Endangered Species	EA	1	4,000.00	\$4,000.00
	Dam Safety Permit	EA	1	2,000.00	\$2,000.00
	FEMA LOMR	EA	1	\$ 7,000.00	\$7,000.00
	Construction Admin	L.S.	1	30,000.00	\$30,000.00
	Long Term Monitoring	Year	2	5,000.00	\$10,000.00
	Maintenance	Year	2	5,000.00	\$10,000.00
	SUBTOTAL				\$270,227.50
	CONTINGENCY (20%)				\$54,045.50
	TOTAL COST (ROUNDED TO NEAREST \$1,000)				\$324,000.00
				<b>RANGE</b>	\$275,000.00 \$421,000.00

**FUSS & O'NEILL, INC.**  
 146 HARTFORD ROAD  
 MANCHESTER, CONNECTICUT

OPINION OF CONSTRUCTION COST		DATE PREPARED :		12-Nov-09	
<b>Type: Budget</b>					
PROJECT : Fyeshire Pond Phase II		BASIS : R.S. Means, Previous Project Cost Data			
LOCATION : Bolton, MA					
DESCRIPTION: Alternative 4.0					
DRAWING NO. C4.0		ESTIMATOR : DRB/KCB		CHECKED BY : PWM	
<p><b>OPINION OF CONSTRUCTION COST - BUDGET:</b> An opinion of cost based on design information available early in the design process. It can be used by an owner to establish his budget. It is normally expected that an estimate of this type would be accurate to within plus 30% or minus 15%. Since Fuss &amp; O'Neill has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor(s)' methods of determining prices, or over competitive bidding or market conditions, Fuss &amp; O'Neill's opinion of probable Total Project Costs and Construction Costs are made on the basis of Fuss &amp; O'Neill's experience and qualifications and represent Fuss &amp; O'Neill's best judgment as an experienced and qualified professional engineer, familiar with the construction industry, but Fuss &amp; O'Neill cannot and does not guarantee that proposals, bids or actual Total Project or Construction Costs will not vary from opinions of probable cost prepared by Fuss &amp; O'Neill. If prior to the bidding or negotiating Phase the Owner wishes greater assurance as to Total Project or Construction Costs, the Owner shall employ an independent cost estimator.</p>					
ITEM NO.	ITEM	UNIT MEAS.	NO. UNITS	PER UNIT	TOTAL COST
<b>SOIL AND EROSION CONTROL</b>					
	Sedimentation and Erosion Control	L.S.	1	\$ 1,500.00	\$1,500.00
<b>WATER CONTROL</b>					
	Control of Water	L.S.	1	\$ 32,000.00	\$32,000.00
	Dewatering	L.S.		\$ 7,500.00	
<b>SITE PREPARATION WORK</b>					
	Access Road Improvements	L.S.	1	3,500.00	\$3,500.00
	Clearing and Grubbing	EA	20	\$ 475.00	\$9,500.00
<b>DEMOLITION</b>					
	Concrete (assumes off-site disposal)	C.Y.	21.5	\$ 750.00	\$16,125.00
	Disassemble Rubble Masonry Wall	C.F.	900	\$ 4.50	\$4,050.00
<b>EARTHWORK</b>					
	Sediment excavation (assumes on-site disposal)	C.Y.	1500	\$ 15.00	\$22,500.00
	Embankment excavation and haul off-site	C.Y.	500	\$ 25.00	\$12,500.00
	Stream Substrate	C.Y.	755	\$ 35.00	\$26,425.00
	Boulder Clusters	EA	85	450.00	\$38,250.00
	Anchored logs	EA	28	250.00	\$7,000.00
<b>PLANTINGS</b>					
	Native, FAC trees from rootball	EA	360	55.00	\$19,800.00
	Plant with Wetland Seed Mix	AC	9	1,500.00	\$13,500.00
	Live Stakes, assorted native species	SF	17000	0.70	\$11,900.00
<b>GENERAL CONDITIONS</b>					
	Mobilization & Demobilization	L.S.	1	22,500.00	\$22,500.00
<b>ENGINEERING/PERMITTING</b>					
	Engineering	L.S.	1	45,000.00	\$45,000.00
	Permitting				
	Wetland Protection Act	EA	1	6,000.00	\$6,000.00
	401 Water Quality Certification	EA	1	3,000.00	\$3,000.00
	404 Compliance (Assume Cat. II PGP only)	EA	1	4,000.00	\$4,000.00
	MEPA (Assume EENF only)	EA	1	7,000.00	\$7,000.00
	Endangered Species	EA	1	4,000.00	\$4,000.00
	Dam Safety Permit	EA	1	2,000.00	\$2,000.00
	FEMA LOMR	EA	1	\$ 7,000.00	\$7,000.00
	Construction Admin	L.S.	1	30,000.00	\$30,000.00
	Long Term Monitoring	Year	2	5,000.00	\$10,000.00
	Maintenance	Year	2	5,000.00	\$10,000.00
	SUBTOTAL				\$369,050.00
	CONTINGENCY (20%)				\$73,810.00
	TOTAL COST (ROUNDED TO NEAREST \$1,000)				\$443,000.00
				RANGE	\$377,000.00 \$576,000.00