

\*Revised 11/13/06

**SECTION E ESTIMATE OF QUANTITIES**

**DRAINAGE STRUCTURE SITE 2  
ALTERNATE A**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
380E6305	Compression Seal Joint	63.8	Ft
420E0200	Structure Excavation, Box Culvert	128	CuYd
421E0200	Box Culvert Undercut	476	CuYd
430E0100	Bridge End Backfill	33.8	CuYd
430E0510	Approach Slab Underdrain Excavation	36.9	CuYd
460E0120	Class A45 Concrete, Box Culvert	*289.9	CuYd
460E0150	Concrete Approach Slab for Bridge	147.6	SqYd
460E0160	Concrete Approach Sleeper Slab for Bridge	35.4	SqYd
460E0380	Install Dowel in Concrete	40	Each
480E0100	Reinforcing Steel	62,965	Lb
480E0504	No. 4 Rebar Splice	30	Each
480E0505	No. 5 Rebar Splice	28	Each
480E0506	No. 6 Rebar Splice	44	Each
680E0040	4" Underdrain Pipe	93.8	Ft
680E2010	Precast Concrete Headwall for Drain	2	Each
680E2500	Porous Backfill	6.0	Ton
700E0210	Class B Riprap	74.0	Ton
831E0110	Type B Drainage Fabric	233	SqYd

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	35	CuYd
421E0200	Box Culvert Undercut	153	CuYd
460E0120	Class A45 Concrete, Box Culvert	79.3	CuYd
480E0100	Reinforcing Steel	17,391	Lb
700E0210	Class B Riprap	18.7	Ton
831E0110	Type B Drainage Fabric	32	SqYd

**ALTERNATE B**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	31	CuYd
421E0200	Box Culvert Undercut	144	CuYd
560E0108	9' x 4' Precast Concrete Box Culvert, Furnish	104	Ft
560E0109	9' x 4' Precast Concrete Box Culvert, Install	104	Ft
560E1108	9' x 4' Precast Concrete Box Culv End Sec, Furnish	2	Each
560E1109	9' x 4' Precast Concrete Box Culv End Sec, Install	2	Each
700E0210	Class B Riprap	18.7	Ton
831E0110	Type B Drainage Fabric	32	SqYd

**DRAINAGE STRUCTURE SITE 1  
ALTERNATE A**

**DRAINAGE STRUCTURE SITE 3  
ALTERNATE A**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	38	CuYd
421E0200	Box Culvert Undercut	154	CuYd
460E0120	Class A45 Concrete, Box Culvert	86.7	CuYd
480E0100	Reinforcing Steel	14,346	Lb
700E0210	Class B Riprap	22.4	Ton
831E0110	Type B Drainage Fabric	37	SqYd

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	22	CuYd
421E0200	Box Culvert Undercut	104	CuYd
460E0120	Class A45 Concrete, Box Culvert	51.3	CuYd
480E0100	Reinforcing Steel	8,265	Lb
700E0210	Class B Riprap	14.9	Ton
831E0110	Type B Drainage Fabric	27	SqYd

**ALTERNATE B**

**ALTERNATE B**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	36	CuYd
421E0200	Box Culvert Undercut	151	CuYd
560E2050	2-7' x 3' Precast Concrete Box Culvert, Furnish	80	Ft
560E2051	2-7' x 3' Precast Concrete Box Culvert, Install	80	Ft
560E3050	2-7' x 3' Precast Concrete Box Culv End Sec, Furnish	2	Each
560E3051	2-7' x 3' Precast Concrete Box Culv End Sec, Install	2	Each
700E0210	Class B Riprap	24.9	Ton
831E0110	Type B Drainage Fabric	41	SqYd

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	19	CuYd
421E0200	Box Culvert Undercut	97	CuYd
560E0068	7' x 3' Precast Concrete Box Culvert, Furnish	80	Ft
560E0069	7' x 3' Precast Concrete Box Culvert, Install	80	Ft
560E1068	7' x 3' Precast Concrete Box Culv End Sec, Furnish	2	Each
560E1069	7' x 3' Precast Concrete Box Culv End Sec, Install	2	Each
700E0210	Class B Riprap	16.2	Ton
831E0110	Type B Drainage Fabric	28	SqYd

**REQUIRED LIST**

- 1 Estimate of Quantities Title
- 2 Project Block
- 3 Estimate of Quantities Box

