



ITEM 203 EXCAVATION								
DESCRIPTION	#	AREA		W		DEPTH		CU YD
INLET CAD MEASURED AREA	1	272				1		10.1
SUB-TOTAL =								10.1
ITEM 203 GRANULAR MATERIAL, TYPE B								
DESCRIPTION	#	AREA		W		DEPTH		CU YD
INLET CAD MEASURED AREA	1	272				1		10.1
SUB-TOTAL =								10.1
ITEM 204 GEOTEXTILE FABRIC								
DESCRIPTION	#	AREA		W		DEPTH		SY
INLET CAD MEASURED AREA	1	322						35.8
SUB-TOTAL =								35.8
ITEM 510 DOWEL HOLES WITH NON-SHRINK NON METALLIC GROUT								
DESCRIPTION	#	L		W		H/T		EACH
WA502	7							7.0
TOTAL =								7.0
ITEM 511 CLASS QC1 CONCRETE, FOOTING								
DESCRIPTION	#	AREA		W		DEPTH		CY
INLET CAD MEASURED AREA FOR SLAB	1	322				2		23.9
ET CAD MEASURED AREA FOR CUTOFF W	1	51				1		1.9
OUTLET CAD MEASURED AREA FOR SLAB	1	403				2		29.9
ET CAD MEASURED AREA FOR CUTOFF V	1	76				1		2.8
								0.0
TOTAL =								58.4
ITEM 511 QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING								
DESCRIPTION	#	AREA		W		DEPTH		CY
WINGWALL A	1	60				1.5		3.3
WINGWALL B	1	144.5				1.5		8.0
WINGWALL C	1	138.8				1.5		7.7
WINGWALL D	1	211.5				1.5		11.8
CULVERT WALL MINUS PIPE	2	155				1.5		17.2
TOTAL =								48.0



ITEM 512 SEALING OF CONCRETE SURFACES (NON-EPOXY)								
DESCRIPTION	#	L		W		H/T		SQ YD
WINGWALL A BACK	1	6.333		1				0.7
WINGWALL A TOP	1	6.333		1.5				1.1
WINGWALL A FRONT	1	6.333		10.29	8.83			6.7
WINGWALL B BACK	1	16.13		1				1.8
WINGWALL B TOP	1	16.13		1.5				2.7
WINGWALL B FRONT	1	16.13		1.89	11.29			11.8
WINGWALL C BACK	1	15.53		1				1.7
WINGWALL C TOP	1	15.53		1.5				2.6
WINGWALL C FRONT	1	15.53		1.36	11.29			10.9
WINGWALL D BACK	1	20.55		1				2.3
WINGWALL D TOP	1	20.55		1.5				3.4
WINGWALL D FRONT	1	20.55		1.96	11.29			15.1
CULVERT WALL BACK	2	15		1				3.3
CULVERT WALL TOP	2	15		1.5				5.0
CULVERT WALL FRONT	2	155	MEAS					34.4
TOTAL =								103.5
ITEM 512 TYPE 2 WATERPROOFING								
DESCRIPTION	#	L		W		H/T		SQ YD
CONDUIT	1	60		21.67				144.4
TOTAL =								144.4
ITEM 518 POROUS BACKFILL WITH GEOTEXTILE FABRIC								
DESCRIPTION	#	L		W		H/T		CU YD
WINGWALL A	1	5.94		1.5		6.3	7.79	2.3
WINGWALL B	1	15.62		1.5		5.2	7.79	5.6
WINGWALL C	1	14.65		1.5		5.2	7.79	5.3
WINGWALL D	1	20.35		1.5		7.79		8.8
TOTAL =								22.0
ITEM 601 RIPRAP, TYPE D								
DESCRIPTION	#	CAD MEASURE		W		H/T		SY
INLET	1	111						12.3
OUTLET	1	89						9.9
TOTAL =								22.2
ITEM 601 ROCK CHANNEL PROTECTION, TYPE B WITH FILTER								
DESCRIPTION	#	CAD MEASURE		W		DEPTH		FT
OUTLET	1	271				2.5		25.1
TOTAL =								25.1
ITEM 611 CONDUIT, MISC.: 87"x136" CONCRETE ELLIPTICAL, TYPE A (706.04)								
DESCRIPTION	#	L		W		H/T		FT
CULVERT	1	60						60.0
TOTAL =								60.0