

Estimated Quantities

Calculated By:	BIM	Date: 12/6/2023	REV. 5/22/24	Sheet:	1 of 1
Checked By:	RTF/JAH	Date: 12/13/2023	REV. 5/23/24	Job No.:	94141
Updated By:	BIM	Date: 12/14/2023	REV. 5/24/24		
Backchecked By:	JAH	Date: 5/28/2024			
Project:	ATB-193-2.29				
Subject:	Estimated Quantities				

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ESTIMATED QUANTITIES						
ITEM	EXT.	PARTICIPATION 03/STR/04	QUANTITY	UNIT	DESCRIPTION	SHT. REF.
202	11000	LS	LS		STRUCTURE REMOVED	
203	10000	74	74	CY	EXCAVATION	
203	35120	74	74	CY	GRANULAR MATERIAL, TYPE C	
204	50000	179	179	SY	GEOTEXTILE FABRIC	
503	11100	LS	LS		COFFERDAMS AND EXCAVATION BRACING	
512	10100	102	102	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	33000	211	211	SY	TYPE 2 WATERPROOFING	
512	33010	84	84	SY	TYPE 3 WATERPROOFING	
601	11000	36	36	SY	RIPRAP, TYPE D	
601	32100	52	52	CY	ROCK CHANNEL PROTECTION, TYPE B, WITH FILTER	
602	20001	26	26	CY	CONCRETE MASONRY, AS PER PLAN	3 / 3
611	95520	95	95	FT	10' X 9' CONDUIT, TYPE A, 706.05, DESIGN COVER > 2 FT	

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				<u>INLET</u>	<u>OUTLET</u>	
202	11000		LS			STRUCTURE REMOVED
203	10000	74	CY			EXCAVATION
		95	ft			Length of culvert
		14	ft			Outer width + 1 ft to each side = trench width
		1.5	ft			Depth
		73.89	CY			
203	35120	74	CY			GRANULAR MATERIAL, TYPE C
		95	ft			Length of culvert
		14	ft			Outer width + 1 ft to each side = trench width
		1.5	ft			Depth
		73.89	CY			
204	50000	179	SY			GEOTEXTILE FABRIC
		95	ft			Length of culvert
		14	ft			Trench width
		1.5	ft			Trench depth
		179.44	CY			
503	11100		LS			COFFERDAMS AND EXCAVATION BRACING
512	10100			<u>INLET</u>	<u>OUTLET</u>	
		102	SY			SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
		Sides		31.49	35.21	sf Exposed Box Culvert on one side
				62.98	70.42	sf Exposed Box Culvert on BOTH side
		Top		11.67	11.67	ft Total width of box
				20.76	19.35	ft length of exposed box on top
				242.20	225.75	sf Area on top of box exposed
		Front		11.67	11.67	ft length of headwall
				9.83	9.83	ft height of headwall + box
				114.72	114.72	SF Area, front of HW
				9.00	9.00	ft Rise
				10.00	10.00	ft Span
				-90.00	-90.00	SF Subtract hole (Area of culvert)
				24.72	24.72	sf total headwalls, front
		Wingwalls		5.83	5.83	ft H2
				8.17	8.17	ft L
				1.00	1.00	ft width
				0.83	0.83	ft P
				0.50	0.50	ft Min Height
				4.50	4.50	ft Max Height
				20.42	20.42	sf Face
				8.17	8.17	sf Top
				0.50	0.50	sf End
				2.00	2.00	sf Each
				58.17	58.17	sf Total
		Inside		38.0	38.0	ft Perimeter inside culvert (2 x 9' rise + 2 x 10' span)
				2	2	ft Depth inside culvert
				1	1	ea number of ends
				76	76	SF total culvert
				464.07	455.06	sf TOTAL Exposed Area
		102		51.56	50.56	SY TOTAL Exposed Area

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		<u>INLET</u>		<u>OUTLET</u>			
512	33000	211			SY	TYPE 2 WATERPROOFING	
			10.67		ft	Culvert Height	
			95.17		ft	Proposed Length	
			2030.22		sf	Area, culvert	
			159.81		sf	Subtract Area of exposed box	
			1870.42		sf	Area of Culvert under dirt	
			5.83	5.83	ft	HW Height	
			2.00	2.00	ft	Length = 2 * 1 ft overlap	
			11.67	11.67	SF	Area, HWs	
		1893.75	1882.08	11.67	SF	Area, HWs	
		211			SY	Total Area	
512	33010	84			SY	TYPE 3 WATERPROOFING	
			11.67		ft	Culvert width	
			13.67		ft	Width + 2x 1'-0" Overlaps	
			55.00		ft	Proposed Length	
		751.67	751.67		sf		
		84					
		<u>INLET</u>		<u>OUTLET</u>			
601	11000	36			SY	RIPRAP, TYPE D	
			161.00	161.00	sf	measured in microstation	
			322.00	161.00	SF	total	
			36.00		SY	total	
		<u>INLET</u>		<u>OUTLET</u>			
601	32100	52			CY	ROCK CHANNEL PROTECTION, TYPE B, WITH FILTER	
				557.38	sf	measured in microstation	
			0.00	557.38	sf	Total Area	
			0.00	2.50	ft	depth	
			0	1393	cf	total at outlet	
		1393.45	0.00	1393.45	cf	total	
		52.00			cy	total	
					cy	total	
		<u>INLET</u>		<u>OUTLET</u>			
602	20001	26			CY	CONCRETE MASONRY, AS PER PLAN	
			12.80	12.80	CY	based on Half Height HW standard table	
		26.00					
		<u>INLET</u>		<u>OUTLET</u>			
611	95520	95			FT	10' X 9' CONDUIT, TYPE A, 706.05, DESIGN COVER > 2 FT	
			95.00		ft	Proposed Length	
		95.00	95.00		ft		