RD212306,9/10/2004,R:\Proj\estimates\final estimate\R-2206C Drain Sum.xls

RD192296

COMPUTED BY: TCE TO, RPS DATE: 5/1/2004

CHECKED BY: SEC, REO DATE: 6/1/2004

METRIC

PROJECT NO.	SHEET NO.
R-2206C	3-A

DIVISION OF HIGHWAYS

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1200mm & UNDER)

STATION	LOCATION (LT, RT, M, OR CL)	STRUCTURE NO.		TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE)													BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE)								375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. METERS		QUANITIES FOR DRAINAGE STRUCTURES	*TOTAL L.M. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') METERS		C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE			D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	M.D.I. TYPE "A" STD. 840.17 OR 840.26	M.D.I. TYPE "B" STD. 840.18 OR 840.27	M.D.I. TYPE "D" STD. 840.19 OR 840.28	M.D.I. FRAME WITH GRATE STD. 840.22	M.D.I. FRAME WITH TWO GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	J.B. STD. 840.31 OR 840.32	M.H. STD. 840.51 OR 840.53	M.H. FRAME AND COVER STD. 840.54	B.D.O. STD. 850.10	B.D.O. STD. 850.11	SPRING BOX STD. 840.41	150 mm PVC (m)	450 mm TEE-RISER STD. 1630.01	600 mm TEE-RISER STD. 1630.01	T.B.D.I. STD. 840.35	JB STD. 840.34	REINFORCED TAPERED INLET - SEE SHEET 2-V	TEMP. STEEL COVER	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" M^3 STD. 840.72	CONC. ENDWALL FOR TAPERED INLET SEE SHEET 2-W. CLASS "B", M^3.	PIPE REMOVAL (METERS)	REMARKS
SIZE								375	450	450	600	600	750	750	900	900	1050	1050	1200	1200	400	450	600	600	800	800	1000	1000				R.C.P.	C.S.P.	PER EACH (0 THRU 1.50)	A	B		E	F	G																										
THICKNESS OR GAUGE		FROM	TO							CLASS IV		CLASS IV		CLASS IV		CLASS IV		CLASS IV		CLASS IV	1.63	1.63	1.63		2.01		2.01								1.5 THRU 3.00	3.00 AND ABOVE																																ABBREVIATIONS: C.B. CATCH BASIN; D.I. DROP INLET; M.D.I. MEDIAN DROP INLET; M.D.I.(N.S.) MEDIAN DROP INLET (NARROW SLOT); J.B. JUNCTION BOX; M.H. MANHOLE; B.D.O. BERM DRAINAGE OUTLET
SHEET 4																																																																		
L 181+60	CL	1	OUT		244.894	238.794								105.6																																																				MEHTOD 'B' INSTALLATION
L 182+17	CL	2	OUT		239.121	236.433														121.2																																							1				9.2		MEHTOD 'B' INSTALLATION
L 182+00	LT	3		255.650																														1																								1			1					2 G.I. W/FUTURE FLAT GRATES
L 182+00	LT	3	4		254.840	254.508		19.2																																																									
L 182+00	CL	4		255.268																														1										1			1																			
L 182+00	CL	4	7		254.458	252.760		133.2																																																								
L 182+00	RT	5		255.650																														1																								1			1					2 G.I. W/FUTURE FLAT GRATES
L 182+00	RT	5	4		254.840	254.508		19.2																																																								
SHEET 5																																																																		
L 183+34	LT	6		254.100																														1																								1			1					2 G.I. W/FUTURE FLAT GRATES
L 183+34	LT	6	7		253.287	252.760		19.2																																																								
L 183+34	CL	7		253.605																														1										1			1																			
L 183+34	CL	7	9		252.535	252.229					61.2																																																					
L 183+34	RT	8		254.100																														1																								1			1					2 G.I. W/FUTURE FLAT GRATES
L 183+34	RT	8	7		253.287	252.760		19.2																																																								
L 183+95	CL	9		253.948																														1	0.269									1			1																			
L 183+95	CL	9	10		252.179	249.990							25.2																																																	
L 183+95	LT	10		253.218																														1	1.5	0.278								1			1																			
L 183+95	LT	10	OUT		249.940	245.500							44.4																																																	
L 184+70	CL	11		255.132																														1										1				1																		
L 184+70	CL	11	9		253.750	252.379			75.6																																																							
L 184+70	RT	12		255.054																														1										1			1																			
L 184+70	RT	12	11		254.241	253.800		25.2																																																								
SHEET 7																																																																		
L 189+90	LT	13		252.466																														1										1				1																		
L 189+90	LT	13	14		251.576	251.375		25.2																																																								
L 189+90	CL	14		252.892																														1	0.242									1			1																			
L 189+90	CL	14	18		251.150	249.550					148.8																																																					
L 189+90	RT	15		252.466																														1										1			1																			
L 189+90	RT	15	14		251.576	251.300			25.2																																																							
L 191+38	RT	17		251.301																														1																								1			1					2 G.I. W/FUTURE FLAT GRATES
L 191+38	RT	17	18		250.487	249.775		19.2																																																								
L 191+38	CL	18		250.851																														1										1				1																		
L 191+38	CL	18	19		249.500	249.150					19.2																																																					
L 191+38	LT	19		251.450																														1	0.85																							1			1					2 G.I. W/FUTURE FLAT GRATES
L 191+38	LT	19	20		249.100	245.060					13.2																																																					
SHEET TOTALS								279.6	100.8	0.0	242.4	0.0	69.6	105.6	0.0	0.0	0.0	0.0	0.0	121.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16	2.861	0.278	0	0	0	0	0	0	0	10	0	0	7	3	0	0	0	0	0	0	0	0	0	6	0	1	6	0	0.0	9.2	0.0	