COMPUTED BY: J.B. DATE: 11/03
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METRIC

PROJECT REFERENCE NO.	SHEET NO.
B-2583	3-B

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

STATION		LOCATION (LT, RT, OR CL)	STRUCTURE NUMBER FROM	TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) (mm) 300	375	450	600	750	900	1050	1200	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) (mm) 150 / 1.63	300 / 1.63	400 / 1.63	450 / 1.63	600 / 1.63	600	800 / 2.01	800	900 / 2.01	900	1050 / 2.77	1050	1200 / 277	1200
SIZE / THICKNESS OR GAUGE																														
-L-	11+21	RT.	1		503.04	502.13																								
			1	2		502.13	501.83			7.2																				
-L-	11+14	LT.	2		502.74	501.83																								
			2	3		501.83	501.50												13.2											
-L-	13+21	RT.	4		500.50	499.58																								
			4	5		499.58	499.52	X		6.0																				
-L-	13+21	LT.	5		500.50	499.52																								
			5	6		499.52	497.00												7.2											
-L-	13+50	LT	7		500.17	499.25																								
			7	8		499.25	Exist.			4.8																				
-Y1-	10+67	RT.	9		499.34	498.43																								
			9	10		498.43	498.39	X		6.0																				
-Y1-	10+67	LT.	10		499.34	498.39																								
			10	11		498.39	497.30												7.2											
-Y1-	11+37	LT.	12		503.18	502.26																								
			12	13		502.26	501.50											12.0												
	TOTALS									24.0								12.0	27.6											

STATION		FROM	TO	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	ENDWALLS STD. 838.1 OR STD. 838.11 (UNLESS NOTED OTHERWISE) R.C.P. (m3)	C.S.P. (m3)	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL M FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') PER EACH (0' THRU 1.5m)	*m A 1.5m THRU 3.0m	B 3.0m AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES & HOOD STANDARD 840.03 TYPE OF GRATE E	F	G		D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME WITH TWO GRATES 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 W/TWO GRATES STD. 840.20	M.D.I. FRAME W/TWO GRATES STD. 840.22	M.D.I. FRAME W/GRATE STD 840.22(SINGLE)	M.D.I.(NS)FRAME W/TWO GRATES STD 840.24	M.D.I.(NS)FRAME W/ONE GRATE STD 840.24	FRAME & NARROW SLOTTED FLAT GRATE STD 840.29	J.B. STD. 840.31 OR 840.32	C.B. STD. 840.04 OR 840.05	FRAME WITH TWO GRATES STD. 840.33	TRAFFIC BEARING JB STD. 840.34	TRAFFIC BEARING DI STD. 840.35	TRAFFIC BEARING DI STD. 840.36	STEEL FRAME W/TWO GRATES STD 840.37	CORR. STEEL ELBOWS, NO. & SIZE	CONC. & BRICK PIPE PLUG, CY STD. 840.71	PIPE REMOVAL (L.M.)		REMARKS
-L-	11+21	1							1																			1					1							
		1	2																																					
-L-	11+14	2							1																			1					1							
		2	3																																	2@400				OPEN END PIPE
-L-	13+21	4							1																			1					1							
		4	5																																					
-L-	13+21	5							1																			1					1							
		5	6																																	2@400				
-L-	13+50	7							1			1	1																											
		7	8																																					DRILL & GROUT EXIST. 1500mm
-Y1-	10+67	9							1			1			1																									
		9	10																																					
-Y1-	10+67	10							1			1		1																										
		10	11																																	2@400				OPEN END PIPE
-Y1-	11+37	12							1																			1					1							
		12	13																																	2@300				OPEN END PIPE
	TOTALS								8			3	1	1	1													5					5			8				
																																				6@400 2@300				

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
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
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUCTION BOX

GUARDRAIL SUMMARY

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH STRAIGHT	LENGTH SHOP CURVED	LENGTH DOUBLE FACED	WARRANT POINT APPROACH END	WARRANT POINT TRAILING END	"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH APPROACH END	FLARE LENGTH TRAILING END	W APPROACH END	W TRAILING END	ANCHORS XI MOD	ANCHORS TYPE III	ANCHORS SPECIAL TYPE III SC	ANCHORS GRAU-350	ANCHORS AT-1	ANCHORS SPECIAL TEMPORARY 'NESTED' ANCHOR	IMPACT ATTENUATOR TYPE 350 EA	G	NG	REMOVE EXISTING GUARDRAIL	REMARKS
-L-	10+30.000	10+60.480	LT	30.480			10+60.000	10+40.000	1.200	2.200	15.240	15.240	0.300	0.300				2							
-L-	11+27.405	11+19.889	RT	5.715	19.050		11+27.405		1.000	2.200	20.000		1.200				1		1						
-Y1-	11+31.501	DR.#1 10+54.844	RT & LT	20.955	3.810		11+31.501	11+31.501	2.25	3.25		15.240		0.300			1	1							
-L-	11+70.000	12+07.000	LT																	1					SEE TRAFFIC CONTROL PLANS AND SHEET 2-P
			SUB-TOTAL	57.150	22.860												2	3	1	1					
		GRAU-350 - 3 @ 15.240 EA.,		-45.720																					
		AT-1 - 1 @ 1.905 EA.,			-1.905																				
		SPECIAL TYPE IIISC - 2 @ 5.715 EA.,		-11.430																					
			TOTAL	00.000	20.955																				
			SAY	7.620 (CONTINGENCY ITEM)	22.860												2	3	1	1					

ADDITIONAL GUARDRAIL POST = 5 EA.

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