SUMMARY OF DRAINAGE QUANTITIES

NOTE: THE CONTRACTOR SHALL PROVIDE ADDITIONAL STORM SEWER CAPACITY CALCULATIONS IF A PIPE MATERIAL OTHER THAN CONCRETE IS SELECTED.

PIPE CULVERT MATERIAL ALTERNATES

DRAINAGE STRUCTURE NUMBER	LOCATION	TYPE OF PIPE INSTALLATION	CONCRETE	CORRUGATED STEEL AASHTO M-36: ALUMINUM COATED (TYPE 2) CORR. STEEL	CORRUGATED STEEL AASHTO M-36: PLAIN ZINC COATED	CORRUGATED ALUMINUM AASHTO M-196: PLAIN UNCOATED ALUMINUM	PLASTIC: CORR. POLY-ETHYLENE AASHTO M-252	PLASTIC: CORR. POLY-ETHYLENE SMOOTH-LINED AASHTO M-294 TYPE S	PLASTIC: POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO-304
		LONGITUDINAL INTERSTATE AND TRAVEL BEARING	X						
		LONGITUDINAL NONINTERSTATE AND NONTRAVEL BEARING	X	X		X		X	X
		STORM DRAIN, CROSS DRAIN, GRADE ≤ 10%, ADT < 250	X	X	X	X		X	X
		STORM DRAIN, CROSS DRAIN, GRADE ≤ 10%, 250 < ADT < 1500	X			X			
		STORM DRAIN, CROSS DRAIN, GRADE ≤ 10%, ADT > 1500	X						
		STORM DRAIN, CROSS DRAIN, GRADE > 10%, ADT < 250		X	X	X		X	X
		STORM DRAIN, CROSS DRAIN, GRADE > 10%, ADT > 250				X			
		SIDE DRAIN	X	X	X	X		X	X
		PERMANENT SLOPE DRAIN		X	X	X		X	X
		PERFORATED UNDERDRAIN		X	X	X	X	X	

DRAINAGE STRUCTURE NUMBER	LOCATION	LINEAR FEET: SLOPE DRAIN 18"	SLOPE DRAIN 24"	STORM DRAIN 15"	STORM DRAIN 18"	STORM DRAIN 24"	STORM DRAIN 30"	STORM DRAIN 36"	STORM DRAIN 48"	MAXIMUM HEIGHT OF FILL OVER PIPE (FT)	FOUNDATION BACK FILL MAT'L (TP 11 CY)	FLARED END SECTIONS GA. STD. 1120 STORM DRAIN (EA/SZ)	SAFETY END SECTIONS GA. STD. 1120 SIDE DRAIN (EA/SZ)	STRUCTURE DEPTH (H) (LF)	DROP INLETS GP 1: GA. STD. 5001 M1 6 FT OR LESS (EA)	GA. STD. 5001 M1 ADD'L DEPTH (LF)	GA. STD. 5001 M2 6 FT OR LESS (EA)	GA. STD. 5001 M2 ADD'L DEPTH (LF)	GA. STD. 1019 A TYPE "B" WITH WEIR 6 FT OR LESS (EA)	GA. STD. 1019 A TYPE "B" WITH WEIR ADD'L DEPTH (LF)	GA. STD. 9031S 6 FT OR LESS (EA)	GA. STD. 9031S ADD'L DEPTH (LF)	DROP INLETS GP 2: GA. STD. 5001 M1 6 FT OR LESS (EA)	GA. STD. 5001 M1 ADD'L DEPTH (LF)	GA. STD. 5001 M2 6 FT OR LESS (EA)	GA. STD. 5001 M2 ADD'L DEPTH (LF)	GA STD 9031U CLASS A CONC. COLLAR (EA)	GA STD 1125 CLASS A CONC. HEADWALL INCL. REINF STEEL (CY)	MANHOLE GA. STD. 1011 A TYPE 1 42" OR LESS: 6 FT OR LESS (EA)	TYPE 1 ADD'L DEPTH CLASS 1 (LF)	TYPE 1 ADD'L DEPTH CLASS 2 (LF)	TYPE 1 ADD'L DEPTH CLASS 3 (LF)	TYPE 2 48" TO 84": 6 FT OR LESS (EA)	TYPE 2 ADD'L DEPTH CLASS 1 (LF)	TYPE 2 ADD'L DEPTH CLASS 2 (LF)	TYPE 2 ADJUST M.H. TO GRADE (EA)	TYPE 2 RECONSTRUCT M.H. (EA)	CLASS B CONC. (FLUMES AND SPILLWAY APRON) (CY)	JACK OR BORE PIPE - 18" (LF)	JACK OR BORE PIPE - 24" (LF)	JACK OR BORE PIPE - 30" (LF)	COMMENTS
P1-13	529+50, CENTERLINE					150								6.53			1	1																					
P1-12	531+00, CENTERLINE					86								6.43			1	1																					
P1-11	531+86, CENTERLINE					174								6.67			1	1																					EXISTING OUTLET NOT USED
P1-10	533+60, CENTERLINE					150								6.46			1	1																					
P1-9	535+10, CENTERLINE					150								6.58			1	1																					
P1-8	536+60, CENTERLINE					150								6.60			1	1																					
P1-7	538+10, CENTERLINE					150								6.52			1	1																					
P1-6	539+60, CENTERLINE					150								6.49			1	1																					
P1-5	541+10, CENTERLINE					76								6.62			1	1																					
P1-4	541+86, CENTERLINE						114							7.08			1	2																					EXISTING OUTLET NOT USED
P1-2	543+00, CENTERLINE													7.47			1	2											2.32									108	PROPOSED JACK OR BORE
P1-1	543+00, 113' RT.																																						OUTLET HEADWALL
P1-3	543+55, CENTERLINE				55									4.96			1																						
P-2	543+79, 168' LT.																																						EXIST CROSS DRAIN INLET 6 X 6 BOX CLVT
R1-8	545+05, CENTERLINE				150									5.01			1																						
P-1	545+75, 172' RT.																																						EXIST CROSS DRAIN OUTLET 6 X 6 BOX CLVT
Q-1	546+01, 178' RT.																																						EXIST CROSS DRAIN OUTLET 30" PIPE
R1-7	546+55, CENTERLINE				150									4.99			1																						
Q-2	546+79, 134' LT.																																						EXIST CROSS DRAIN INLET 30" PIPE
R1-6	548+05, CENTERLINE				150									5.03			1																						
R1-5	549+55, CENTERLINE				150									4.34			1																						
R1-4	551+05, CENTERLINE				140									4.02			1																						
R1-3	552+45, CENTERLINE				41									4.26			1																						
R1-2	552+86, CENTERLINE													4.56			1																						USE EXIST MEDIAN OUTLET PIPE
R1-1	552+86, 105' RT.			5																																			
S3-17	554+30, CENTERLINE				50									4.96	1																								
S3-16	554+80, CENTERLINE				70									4.96	1																								
S3-15	555+50, CENTERLINE				50									4.96	1																								
R-2	555+77, 110' LT.																																						EXIST CROSS DRAIN INLET 30" PIPE
S3-14	556+00, CENTERLINE				100									5.08	1																								
R-1	556+42, 125' RT.																																						EXIST CROSS DRAIN OUTLET 30" PIPE
S3-13	557+00, CENTERLINE				100									5.14	1																								
S3-12	558+00, CENTERLINE				86									4.96	1																								
	SUB-TOTAL SHEET 10			5	1292	1236	114								6		19	13											2.32									108	

NOTE: FOR FLUME QUANTITIES SEE DRAWING 6-02
NOTE: FOR RIP RAP QUANTITIES SEE DRAWING 6-17

MULKEY ENGINEERS & CONSULTANTS
1255 CANTON STREET, SUITE G
ROSWELL, GEORGIA 30075
(678) 461-3511

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
QUANTITIES - DRAINAGE

DRAWING No. 6-13