SURVEYED BY
SUPERVISED BY AAA
DESIGNED BY Dewberry (703) 849-0607

IN PROGRESS 10/22/08
NOT FOR CONSTRUCTION

DRAINAGE SUMMARY

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED		STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
7/17/08		VA.		7		2C(14)

LOCATION: STRUCTURE NO. TO STRUCTURE NO.	STATION OF UPSTREAM STRUCTURE	CONCRETE PIPE 15	18	24	30	36	42	48	54	60	72		ELIPTICAL PIPE 23x14	30x19	45x29	68x43	76x48	BOX CULVERT (see sheet 2C(16)) 6x4	24x6.67	END SECTIONS ES-1 15	18	END SECTION ES-1 or ES-2 15	18	24	30	36	RADIAL PIPE 15	RADIAL PIPE 60	COVER
		LINEAR FEET																											FT.
9-5 to 9-6				173																									3.2
9-6 to 9-7				133																									3.2
9-7 to 9-8				173																									3.4
9-8 to 8-16				134																									3.4
9-9 to 8-9		233																											2.8
10-1 to 10-7																94													
10-2 to 10-3		58																											2.5
10-3 to 10-7		141																											2.8
10-4 to 10-5											97																		2.0
10-5 to EX.10-11											34																		1.4
10-6 to 11-2		89																											2.6
10-7 to 10-8									47																				2.8
10-8 to 10-4											102																		2.7
EX.10-9 to 10-8						20																							3.2
10-10																										1			
10-10 to 10-4						133																							2.5
10-4																													
10-5																													
10-8																													
SUBTOTAL		521		613		153			47		233					94										1			

STRUCTURE NO. TO STRUCTURE NO.	MINOR STRUCTURE EXCAVATION		EROSION CONTROL TREATMENT: EC-3 TYPE B	EC-1 CLASS AI TYPE A	EC-1 CLASS I TYPE B	EC-1 CLASS I	MISC. STRUCTURES AND MATERIALS: MANHOLE MH-1 OR 2	MOD. SWM-1	HDPE PIPE	LEVEL SPREADER	JB-1	SPECIAL DESIGN JB	PRECAST ARCH	EC-2	EC-3 Type A	CAST IN PLACE PIPE CULV.CON.: CLASS A-3 CONCRETE	REINFORCED STEEL	GEOTEXTILE FABRIC	CONC. CRADLE: CLASS A3 CONC	ENDWALLS: CLASS A-3 CONCRETE	REINFORCED STEEL	HDPE PIPE	SPECIAL DESIGN EW	CLASS A3 CONCRETE FOR JB	REINF. STEEL FOR JB	BEDDING MATERIAL AGGREGATE No.57	CLASS I BACKFILL MATERIAL	CLASS II BACKFILL MATERIAL	REMARKS
	C.Y.	%	SQY.				LF.	EA	42"	EA	EA	EA	LF	SY	SY	CY	LB	SY	CY	CY	LB	30"	EA	CY	LB	TON	TON	TON	
9-5 to 9-6																													
9-6 to 9-7																													
9-7 to 9-8																													
9-8 to 8-16																													
9-9 to 8-9																													
10-1 to 10-7																		225								131			
10-2 to 10-3																													
10-3 to 10-7																													
10-4 to 10-5																		232								43			
10-5 to EX.10-11																		81								15			
10-6 to 11-2																													
10-7 to 10-8																		95								18			
10-8 to 10-4																		244								46			
EX.10-9 to 10-8																		345								6			
10-10																													
10-10 to 10-4																		256								99			
10-4											1													0.969	389.3				
10-5											1													1.382	389.3				
10-8											1													1.382	389.3				
SUBTOTAL											3							1508						3.73	1168	358			

LOCATION: SHEET NO.		DROP INLETS: STD. DI-3B								STD. DI-3BB								STD. T-DI-3C		STD. DI-3C			STD. DI-4B			MOD. DI-4BB			DI-7	DI-3A		HEIGHT OF DROP INLET	STD. DI-3E		MOD.DI-4E	MOD. EXIST. STR.		STD. T-DI-3B		STD. T-DI-4B			MOD. DI-3B		MOD. DI-3C		SLOT LENGTH IN FEET	REMARKS
		4	6	8	10	12	14	16	18	4	6	8	10	12	14	16	18	12	18	6	8	10	6	8	10	6	8	10	EA	EA			4	8	8	EA		14		4	6		4	6	6	10		
		EACH																																														
2C(4)	SUBTOTAL	1	10	1																														3		1												
2C(5)	SUBTOTAL		9	2			1		1			1									1																											
2C(6)	SUBTOTAL	1	9	2			1				1			1						1																1												
2C(7)	SUBTOTAL	1	5			1	3	1							1														4																			
2C(8)	SUBTOTAL	2	3				1					1		1			1			1									1														2	1	1	1		
2C(9)	SUBTOTAL		7	1	1						1	1							1	1																2		2										
2C(10)	SUBTOTAL		7	2	2															1																1												
2C(11)	SUBTOTAL	1	4	2	1		1													1	1	1													1	1				1	2							
2C(12)	SUBTOTAL		1	1	7		1	1							1					1									1	1						1												
2C(13)	SUBTOTAL	1	2	1																2									1																			
GRAND TOTAL		7	57	12	11	1	8	2	1		2	3		2	2		1		1	8	2	1							7	1				3	1	7		2		1	2		2	1	1	1		

COMMONWEALTH OF VIRGINIA
DAVID JOHN MAHONEY
Lic. No. 020798
PROFESSIONAL ENGINEER

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
A			2C(14)