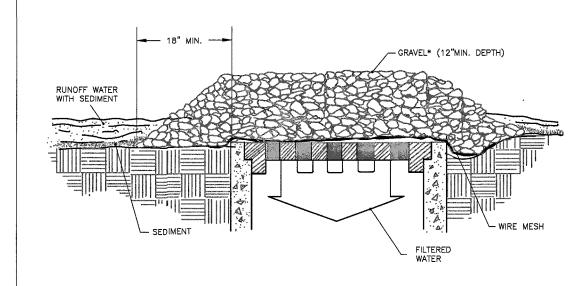
R COMPLET	TON OF THE PROJECT.	
	DDODOCED CTDUCTUDE COLUEDINE	
TRUCTURE	PROPOSED STRUCTURE SCHEDULE DESCRIPTION	
1	7 L.F. 18-in RCP CL III @ 6.29%, INVin=181.69, INVout=181.25	
2	98.42 L.F. 36-in RCP CL III @ 1%, INVin=181.19, INVout=180.21	
3	114.02 L.F. 36-in RCP CL III @ 1%, INVin=180.00, INVout=178.86	
4	70.56 L.F. 36-in RCP CL III @ 1.01%, INVin=178.50, INVout=177.79	
5	283.45 L.F. 36-in RCP CL IV @ 1%, INVin=177.50, INVout=174.67	
6	122.43 L.F. 36-in RCP CL IV @ 1%, INVin=174.50, INVout=173.28	
7	72 L.F. 36-in RCP CL IV @ 4.17%, INVin=173.00, INVout=170.00	
8	22.36 L.F. 18-in RCP CL III @ 2.24%, INVin=184.00, INVout=183.50	
9	22.36 L.F. 18-in RCP CL III @ 3.35%, INVin=185.00, INVout=184.25	
10	47.2 L.F. 18-in RCP CL III @ 4.24%, INVin=186.00, INVout=184.00	
11	68.15 L.F. 18-in RCP CL III @ 1.03%, INVin=186.00, INVout=185.30	
12	110.79 L.F. 24-in RCP CL III @ 0.99%, INVin=186.00, INVout=184.90	
13	158.02 L.F. 18-in RCP CL III @ 1.63%, INVin=189.38, INVout=186.81	
14	187.18 L.F. 18-in RCP CL III @ 1.5%, INVin=192.44, INVout=189.63	
15	188.39 L.F. 18-in RCP CL III @ 1.5%, INVin=195.50, INVout=192.67	
16	61.29 L.F. 24-in RCP CL III @ 0.7%, INVin=186.48, INVout=186.05	
17	155.79 L.F. 24-in RCP CL III @ 0.7%, INVin=187.82, INVout=186.73	
18	86.68 L.F. 24-in RCP CL III @ 0.66%, INVin=188.59, INVout=188.02	ž
19	44 L.F. 18-in RCP CL III © 0.5%, INVin=189.06, INVout≈188.84	
20	128.59 L.F. 24-in RCP CL III @ 0.7%, INVin=183.43, INVout=182.53	

QUANTITIES SHOWN ARE APPROXIMATIONS MADE BY ENGINEER ACCORDING TO THIS PLAN AND SHALL ASSIST IN BOND ESTIMATES

SHOWN ARE APPROXIMATIONS MADE BY ENGINEER TO THIS PLAN AND SHALL ASSIST IN BOND ESTIMATES IONAL MATERIALS AND/OR QUANTITIES MAY BE REQUIRED	PROPOSED STRUCTURE SCHEDULE		
TION OF THE PROJECT.	STRUCTURE	DESCRIPTION	
PROPOSED STRUCTURE SCHEDULE	<u> </u>	8" MH, RIM=186.36, INVout=181.69(18")	
DESCRIPTION		0" MH, RIM=187.61, INVin=182.94(15"), INVin=181.69(30"), IVin=181.25(18"), INVout=181.19(36")	
7 L.F. 18-in RCP CL III @ 6.29%, INVin=181.69, INVout=181.25		0" MH, RIM=190.00, INVin=180.21(36"), INVin=183.50(18"), IVin=184.00(18"), INVout=180.00(36")	
98.42 L.F. 36-in RCP CL III @ 1%, INVin=181.19, INVout=180.21	1 / 5 5 1	8" MH, RIM=190.80, Vin=178.86(36"), NVin=184.90(24"), NVout=178.50(36")	
114.02 L.F. 36-in RCP CL III @ 1%, INVin=180.00, INVout=178.86		8" MH, RIM=192.20, Vin=177.79(36"), INVin=185.30(18"), INVout=177.50(36")	
70.56 L.F. 36-in RCP CL III @ 1.01%, INVin=178.50, INVout=177.79		8" MH, RIM=192.00, Vin=174.67(36"), NVout=174.50(36")	
283.45 L.F. 36-in RCP CL IV @ 1%, INVin=177.50, INVout=174.67	1 / 46\	0" MH, RIM=192.00, Vin=173.28(36"), NVin=182.53(24"), NVout=173.00(36")	
122.43 L.F. 36-in RCP CL IV @ 1%, INVin=174.50, INVout=173.28	37 3	6" RCP FES, INV=170.00	
72 L.F. 36-in RCP CL IV @ 4.17%, INVin=173.00, INVout=170.00	1 /58\	8" MH, RIM=189.00, Vin=184.25(18"), NVout=184.00(18")	
22.36 L.F. 18-in RCP CL III @ 2.24%, INVin=184.00, INVout=183.50	1 / 501	8" MH, RIM=190.50, Vout=185.00(18")	
22.36 L.F. 18-in RCP CL III @ 3.35%, INVin=185.00, INVout=184.25	1 / ZL(1)	8" MH, RIM=192.00, Vout=186.00(18")	
47.2 L.F. 18-in RCP CL III @ 4.24%, INVin=186.00, INVout=184.00		8" MH, RIM=192.00, Vout=186.00(18")	
68.15 L.F. 18-in RCP CL III @ 1.03%, INVin=186.00, INVout=185.30	1 //1://	0" MH, RIM=192.00, Vin=186.81(18"), NVin=186.05(24"), NVout=186.00(24")	
110.79 L.F. 24-in RCP CL III @ 0.99%, INVin=186.00, INVout=184.90	1 / 21 5 \	8" MH, RIM=194.80, Vin=189.63(18"), NVout=189.38(18")	
158.02 L.F. 18-in RCP CL III @ 1.63%, INVin=189.38, INVout=186.81	/ / / / /	8" MH, RIM=192.44, Vin=192.67(18"), NVout=192.44(18")	
187.18 L.F. 18-in RCP CL III @ 1.5%, INVin=192.44, INVout=189.63	1 (//5)	8" MH, RIM=200.25, NVout=195.50(18")	
188.39 L.F. 18-in RCP CL III @ 1.5%, INVin=195.50, INVout=192.67	1 /// 6\	8" MH, RIM=193.20, Vin=186.73(24"), NVout=186.48(24")	
61.29 L.F. 24-in RCP CL III @ 0.7%, INVin=186.48, INVout=186.05	1 // / \	8" MH, RIM=195.00, Vin=188.02(24"), NVout=187.82(24")	
155.79 L.F. 24-in RCP CL III @ 0.7%, INVin=187.82, INVout=186.73	1 //181	8" MH, RIM=195.00, Vin=188.84(18"), NVout=188.59(24")	
86.68 L.F. 24-in RCP CL III @ 0.66%, INVin=188.59, INVout=188.02	1 // U	8" MH, RIM=195.00, Vin=189.31(18" PLUGGED), NVout=189.06(18")	
44 L.F. 18-in RCP CL III @ 0.5%, INVin=189.06, INVout≈188.84	1 7511	8" MH, RIM=192.00, Vin=183.68(24" PLUGGED), NVout=183.43(24")	
128.59 L.F. 24-in RCP CL III @ 0.7%, INVin=183.43, INVout=182.53		2" DIA CMP STANDPIPE, TOP=180.10, INVout=166.00 (42"), SEE ETAIL FOR OTHER OPENINGS	
166.98 L.F. 42-in RCP CL IV @ 13.77%, INVin=166.00, INVout=143.00	52 4:	2" RCP FES, INV=143.00	

- CONTOURS ARE PROPOSED FINISH GRADE OF THE PAVEMENT, CURB, AND BUILDINGS. CONTRACTOR MUST ADJUST TO SMOOTH AND PROVIDE THE SURFACE DESIRED BY THE OWNER. PAVEMENT AND BUILDING AREAS TO BE GRADED TO 12" BELOW THE CONTOURS SHOWN.
- 2. STORM STRUCTURES TO BE BUILT TO ACCOMMODATE FINAL RIM ADJUSTMENT TO THE GRADES SHOWN. THIS MAY REQUIRE SPECIAL CONSTRUCTION BY THE CONTRACTOR FOR THE CONDITION THE SITE IS LEFT IN AFTER THE PROPOSED GRADING IS COMPLETE
- 3. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH VDOT STANDARDS AND SPECIFICATIONS.
- CONTRACTOR TO VERIFY THE PIPE CLASS / STRENGTH PRIOR TO INSTALLATION.
- CONTRACTOR IS NOTIFIED THAT ALTERNATE MATERIALS TO THOSE SHOWN MAY BE ACCEPTABLE.
- 6. CONTEC DUROMAXX PIPE MAY BE COST EFFECTIVE FOR REPLACING THE DEEP STORM SEWER. CONTRACTOR TO VERIFY AVAILABILITY AND COST AT THE TIME OF CONSTRUCTION.

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

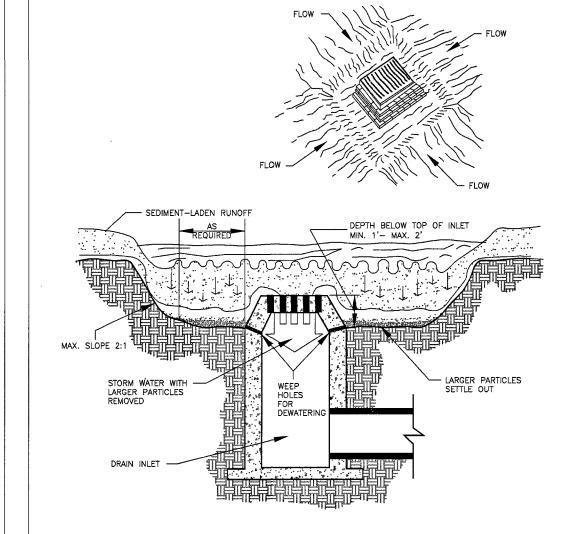


<u>SPECIFIC APPLICATION</u> THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE.

SOURCE: VA. DSWC

EXCAVATED DROP INLET SEDIMENT TRAP



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPABILITY AND EASE OF MAINTENANCE ARE DESIRABLE.

GRAVEL CURB INLET

SEDIMENT FILTER

PLATE. 3.07-2 SOURCE: MICHIGAN SOIL EROSION AND SEDIMENT CONTROL GUIDEBOOK, 1975, AND LATED A 3.005-4

EXCAVATION QUANTITIES

ON-SITE MASS GRADING TO FINISH GROUND CUT 97,325 CY FILL 101,750 CY

PAVEMENT ADJUSTMENT ASSUME 12" OVER 433,000 SF 16,007 CY LESS FILL NEEDED

SHRINKAGE OF 10% (ASSUMED) 10% OF (101,750-16,007) 8,574 CY MORE FILL NEEDED

OFF-SITE GRADING BY HSMM PLANS (IMPORTED WHEN WORK COMPLETED) CUT 198.4 CY

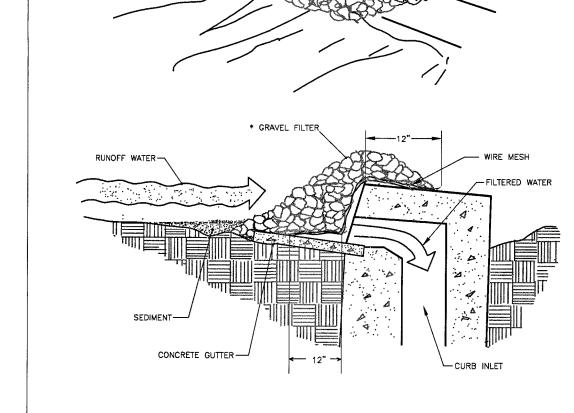
TOTAL ACCOMMODATED 97,523 CY CUT 94,317 CY FILL

SUMMARY NET 3,206 CY MATERIAL LEFT NOTE THIS VOLUME IS WITHIN THE ACCURACY OF THE INFORMATION USED TO PREPARE THE CALCULATIONS.

NOTE: SHRINKAGE AND SWELL HAVE BEEN ASSUMED.

EROSION AND SEDIMENT CONTROL QUANTITIES

- EA CONSTRUCTION ENTRANCE LF SILT FENCE
- 1272 LF DIVERSION DIKES SY MATTING EA INLET PROTECTION
- EA OUTLET PROTECTION EA SEDIMENT TRAP EA SEDIMENT BASIN
- AC PERMANENT SEEDING CY EARTH MOVEMENT



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

* GRAVEL SHALL BE VDOT #3, #357 OR 5 COARSE AGGREGATE.

SOURCE: VA. DSWC

PLATE. 3.07-6

RODNEY DEAN STONE Lic. No. 032060 CDS CDS

RDS

CHECK

UCTION DETAILS FOR AKE TOWNE CENTER ON STATE ROUTE 40 EAST HALL MAGISTERIAL DISTRICT NKLIN COUNTY, VIRGINIA CONSTRUCTI SOUTHLAKE LOCATED ON S UNION HALL N

GENERAL NOTES

ALL LABELED PIPE LENGTHS ARE HORIZONTAL DISTANCE BETWEEN CENTER OF STRUCTURES OR END OF PIPE.

LABELED SLOPES ARE CALCULATED FROM LABELED PIPE LENGTHS.

THERE ARE NO PAVEMENT IMPROVEMENTS AS A PART OF THS PROJECT. ADJOINING PAVEMENT WORK IS PER PLANS BY HSMM AND APPROVED BY VDOT.

09/29/10 AS SHOWN SHEET 10 **OF** 11 PROJECT NUMBER 08091