

SOIL EROSION CONTROL NARRATIVE

PROJECT CONDITIONS:
THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT ROAD AND UTILITY IMPROVEMENTS FOR "TIERED SECTION TWO". THE PROJECT CONSISTS OF APPROXIMATELY 8,100 SQUARE FEET OF PAVEMENT, 33 RESIDENTIAL LOTS AND DRIVEWAYS, AND UTILITY WORK FOR WATER, SANITARY SEWER, AND STORM SEWER. THIS PROJECT WILL DISTURB APPROXIMATELY 17 ACRES OF LAND, DRAWING IN TWO DIRECTIONS.
THE SITE WILL UTILIZE A CONSTRUCTION ENTRANCE, SILT FENCE, INLET PROTECTION, CULTIVET INLET PROTECTION, A SEDIMENT BASIN, DIVERSION DIKE, OUTLET PROTECTION, RIP-RAP, AND PERMANENT SEEDING.
THE PROPERTY DRAINS IN A WESTERLY DIRECTION WITH A DRAINAGE DITCH AT STATION 18+20. A PORTION OF THE SITE WILL THEN DRAIN SOUTHERLY TO AN EXISTING STORMWATER MANAGEMENT POND. THE REMAINDER OF THE SITE WILL DRAIN TO A SEDIMENT BASIN/STORMWATER MANAGEMENT POND TO BE CONSTRUCTED ADJACENT TO AN UNNAMED CREEK. ALL RUNOFF WILL EVENTUALLY REACH WOLF CREEK.

EXISTING CONDITIONS:
THE SITE IS CURRENTLY VACANT/ UNDEVELOPED PORTION OF LARGER PROPERTY OWNED BY CHARLES R. SIMPSON, INC. DESCRIBED IN AS TAX MAP # 610-04-02-1 AND IS ADJACENT TO THE HILLS OF SPRING CREEK, SECTION 1, AND THE MEADOWS. THE PROPERTY IS LOCATED IN ROANOKE COUNTY, ADJACENT TO THE TOWN OF WINTON, VIRGINIA.

SOILS:
AS DETERMINED BY THE U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, GENERAL SOIL MAP, THE BASIC SOIL MATERIAL IS CHANELL-LITZ-LUMBAN LAND.

CRITICAL AREAS:
THE SILT FENCE ALONG THE WESTERN PROPERTY LINE SHOULD BE PLACED TO KEEP SEDIMENT OFF EXISTING RESIDENTIAL PROPERTIES WITHIN THE MEADOWS SUBDIVISION. SILT FENCE SHALL BE INSTALLED UPSTREAM OF THE UNNAMED CREEK TO KEEP SEDIMENT AWAY FROM FLOWING WATERS. ALL SILT FENCE SHALL BE INSTALLED AND CHECKED REGULARLY TO ENSURE IT REMAINS EFFECTIVE. SEDIMENT SHALL BE REMOVED AS NEEDED AND REPAIRED. THE UNNAMED CREEK, THE SEDIMENT BASIN SHALL BE CHECKED AND CLEANED REGULARLY TO INSURE ADEQUATE STORAGE FOR SEDIMENT LOADED RUNOFF. THE DIVERSION DIKE SHALL BE INSTALLED TO LIMIT THE RUNOFF AMOUNT TO THE SEDIMENT BASIN. THE DIVERSION DIKE SHALL BE CHECKED REGULARLY FOR DISTURBANCE. AS INSTALLED THE CONTRACTOR SHALL PROVIDE INLET AND OUTLET PROTECTION FOR EACH STRUCTURE AS SHOWN. OUTLET PROTECTION SHALL INCLUDE RIPRAP TO CONTROL THE VELOCITY OF THE DISCHARGE INTO THE SEDIMENT BASIN/ STORMWATER MANAGEMENT POND. THE CONTRACTOR SHALL PROVIDE PERMANENT SEEDING WITHIN SEVEN (7) DAYS OF OBTAINING FINAL GRADINGS.

ADJACENT PROPERTY: SEE MAP

EROSION AND SEDIMENT CONTROL MEASURES:

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION.

1. REGARDLESS OF FUTURE DEVELOPMENT PLANS, THE CONTRACTOR SHALL IMMEDIATELY INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS. THIS WORK SHALL BE COORDINATED IN ORDER OF THE WORK WHICH IS TO FOLLOW. CONTROL AT CENTERS OF FLOW AND OTHER POINTS OF CONCENTRATION SHOWN SHALL BE CONSTRUCTED IN PLACE FIRST.

2. AFTER THE INSTALLED CONTROL DEVICES ARE FOUND TO BE FUNCTIONAL, THE CONTRACTOR SHALL IMMEDIATELY PROCEED WITH DETAIL GRADING AND CLEARING. AFTER PRELIMINARY GRAD AND OPERATIONS, ALL EXPOSED DISTURBED AREAS SHALL BE SEEDD WITHIN SEVEN (7) DAYS AFTER FINAL GRADING AND SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION.

3. IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL, IN PARTICULAR.

A MEASURES SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAYS, BARRIERS AND INLET PROTECTIONS SHALL BE CHECKED REGULARLY FOR UNDERMINING AND SEDIMENT BUILDUP.

C. ALL SEEDD AREAS WILL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEEDD AS NEEDED.

4. FOLLOWING THE COMPLETION OF DEVELOPMENT AND STABILIZATION OF ALL AREAS AND AFTER IT HAS BEEN DETERMINED THAT EROSION OR SEDIMENTATION IS NO LONGER OCCURRING ON THE SITE OR AT ITS BOUNDARIES AND THAT DAMAGE FLOODS ARE FULFILLING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SITE FROM ANY EROSION AND SEDIMENT CONTROL DEVICES. THIS WORK SHALL BE DONE IN A CAREFUL, NEAT, ORGANIZED MANNER.

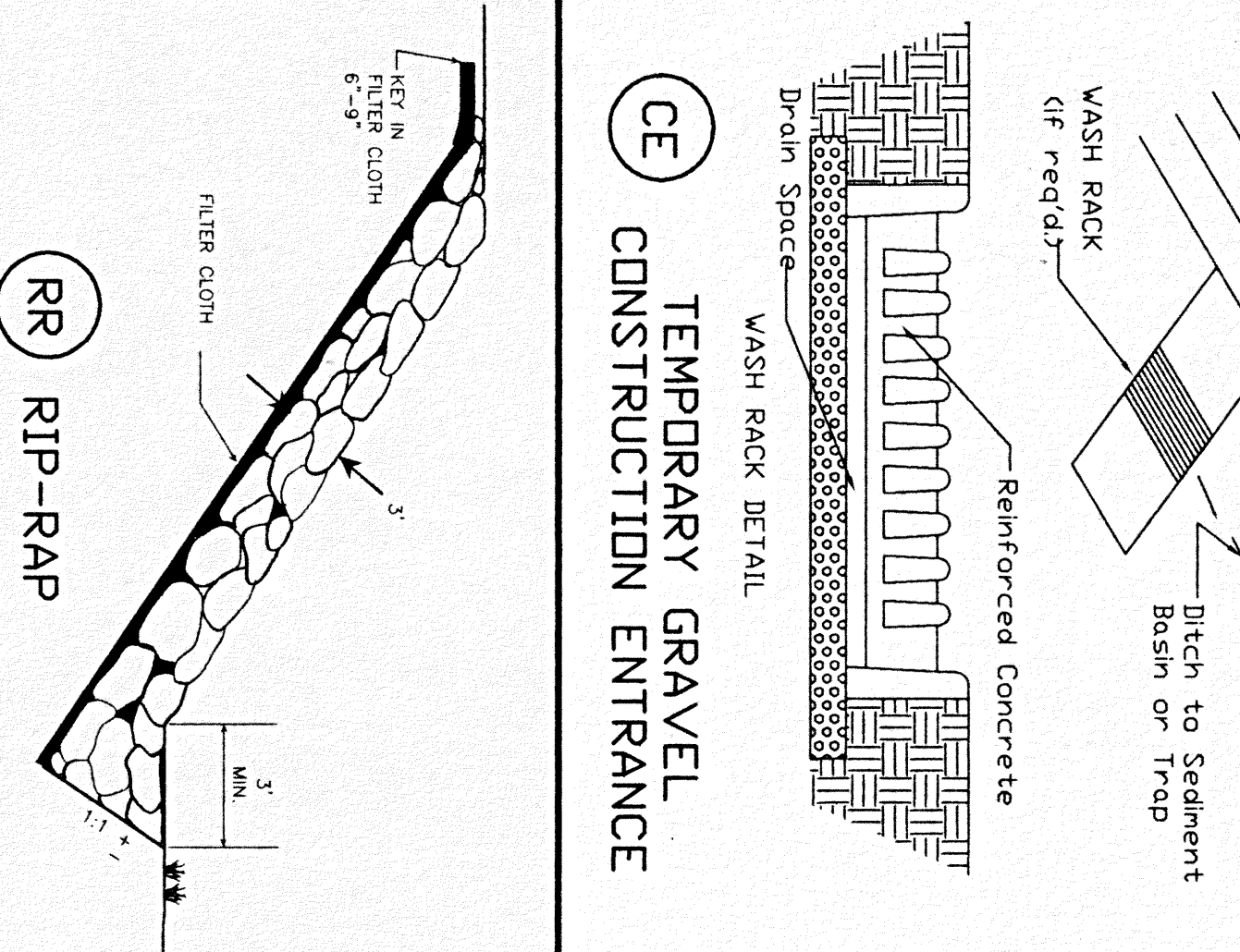
GENERAL COMMENTS:

1. THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.
2. THE APPROVING AUTHORITY RESERVES THE RIGHT TO ADD TO, DELETE, OR OTHERWISE CHANGE EROSION CONTROL DEVICES AS MAY BE DEEMED NECESSARY BY WRITTEN NOTIFICATION TO THE CONTRACTOR.
3. NO WORK SHALL PROCEED ON THE SITE UNTIL THE PROPER AUTHORIZATION OR PERMIT HAS BEEN OBTAINED FROM THE AFFECTING AGENCY.
4. THE ENGINEER, T.PARKER & SON, ASSUMES NO RESPONSIBILITY FOR ANY WORK BEING PERFORMED.

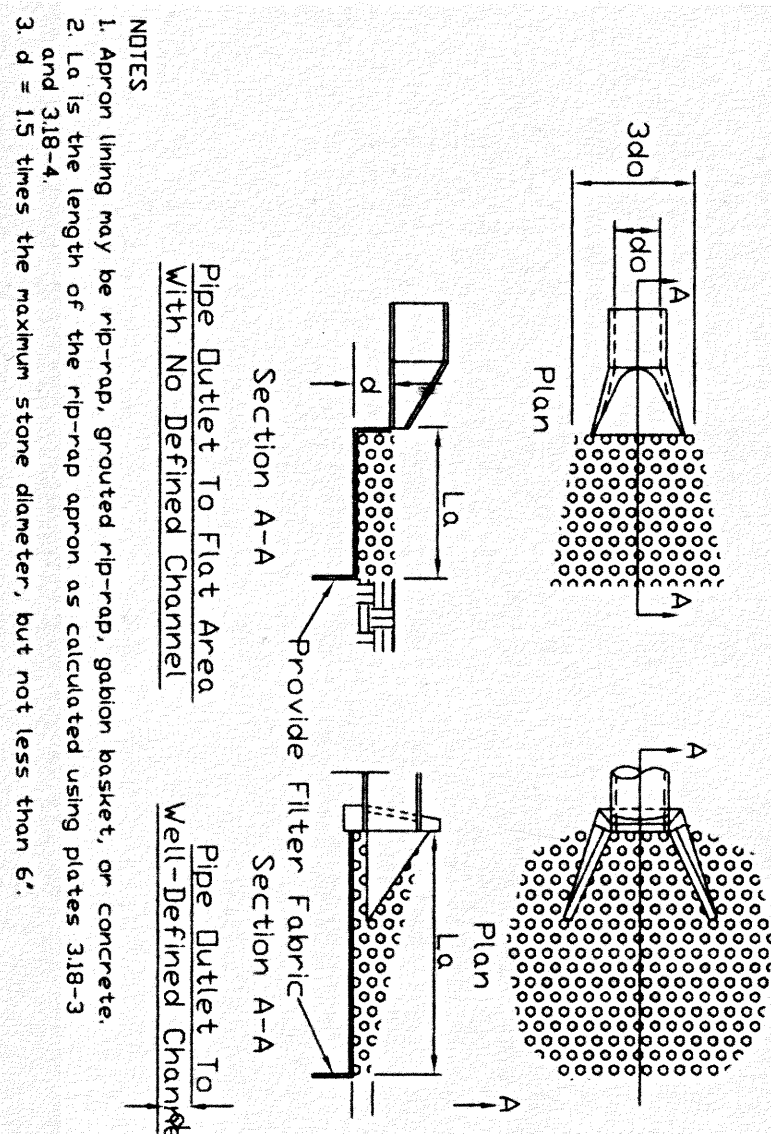
GENERAL EROSION & SEDIMENT CONTROL NOTES

1. ALL SOIL EROSION & SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
2. THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR OTHERWISE MODIFY CERTAIN EROSION AND SEDIMENT CONTROL MEASURES WHERE FIELD CONDITIONS ARE ENCOUNTERED THAT WARRANT SUCH MODIFICATIONS.
3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE PLACED IN ADVANCE OF THE WORK BEING PERFORMED, AS FAR AS PRACTICAL.
4. IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN PROVIDED.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LEAVE THE SITE ADEQUATELY PROTECTED AGAINST EROSION, SEDIMENTATION, OR ANY DAMAGE TO ANY ADJACENT PROPERTY AT THE END OF EACH DAY'S WORK.
6. FOR THE EROSION CONTROL KEY SYMBOLS SHOWN ON THE PLANS, REFER TO THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
7. REFERENCE IS DIRECTED TO "GRADING & EROSION CONTROL PLAN" FOR SITE DEPICTING EROSION AND SEDIMENT CONTROL MEASURES.

CE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



DP OUTLET PROTECTION



RESPONSIBLE LAND DISTURBER CERTIFICATION:

THE GRADING CONTRACTOR FOR THIS PROJECT SHALL NAME ONE PERSON RESPONSIBLE FOR ALL LAND DISTURBANCE ACTIVITIES AND SIGN THIS CERTIFICATION. THE PERSON NAMED SHALL BE A RESPONSIBLE LAND DISTURBER CERTIFICATE UNDER THE GENERAL LAS AS REVISED JULY 1, 2001. THE PERSON NAMED WILL BE IN CHARGE OF AND RESPONSIBLE FOR CARRYING OUT ALL EROSION CONTROL MEASURES. THE PERSON SHALL AFFIX SIGNED AND DATED NAME TO ONE COPY OF THIS EROSION CONTROL SHEET AND SUBMIT TO THE COUNTY OF ROANOKE. NO EROSION AND SEDIMENT CONTROL PLANS CAN BE APPROVED AND NO PERMITS CAN BE ISSUED UNTIL THIS NAME HAS BEEN PROVIDED TO THE GOVERNING AGENCY.

PRINTED NAME _____

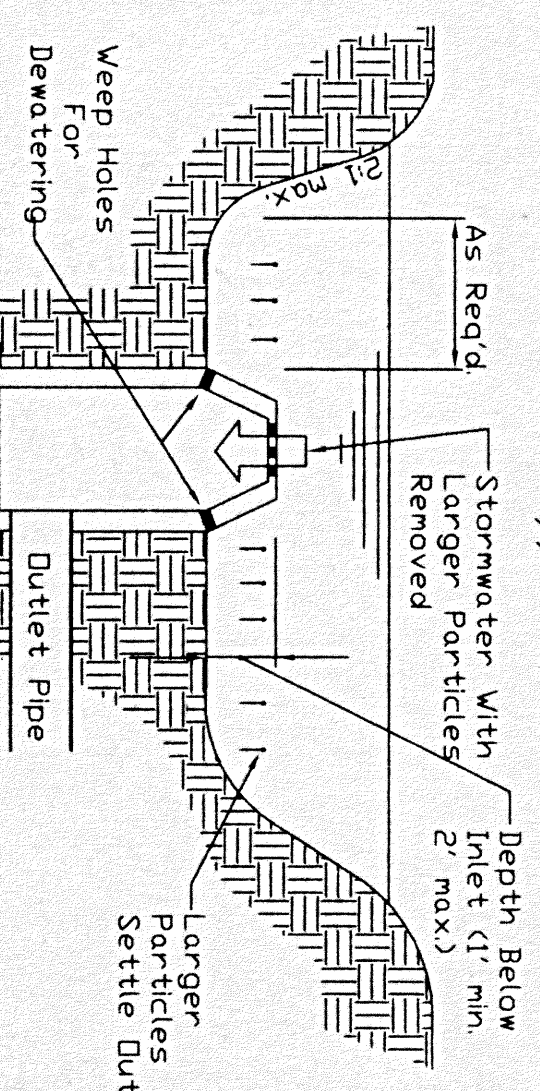
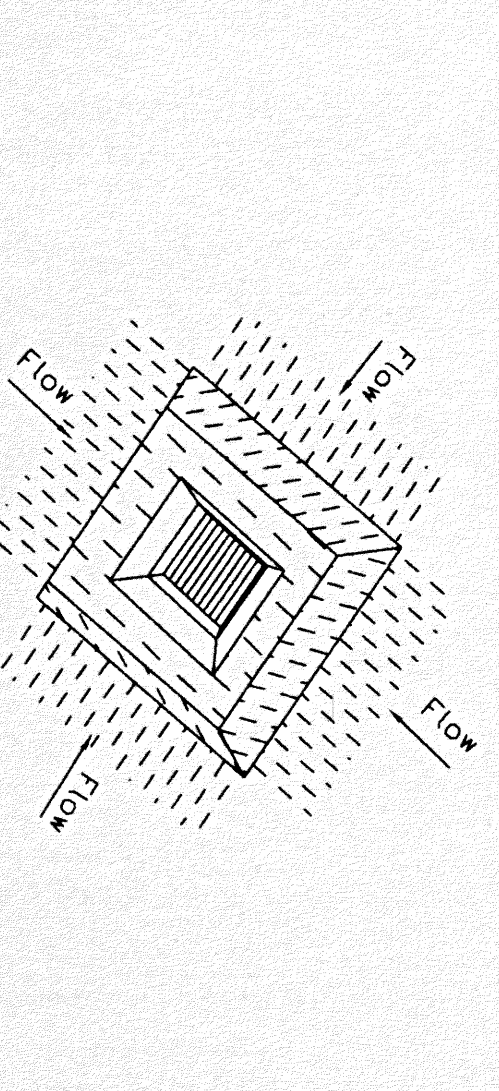
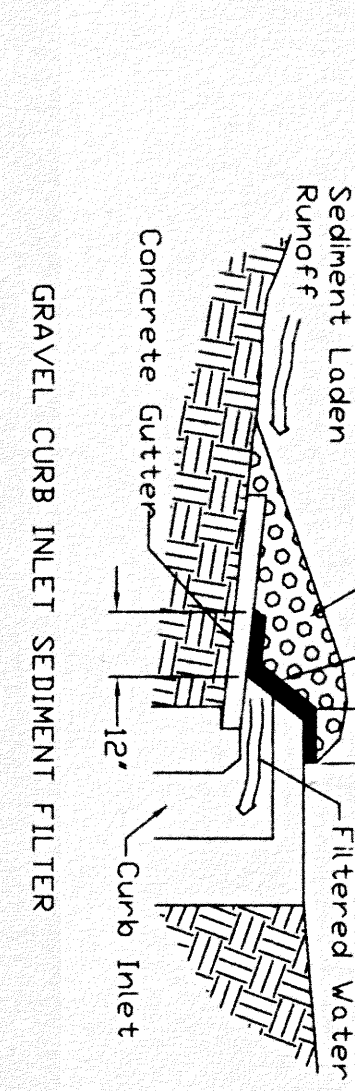
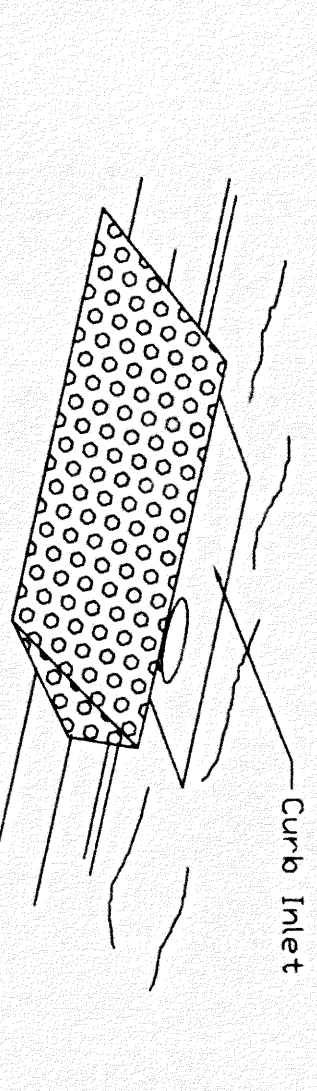
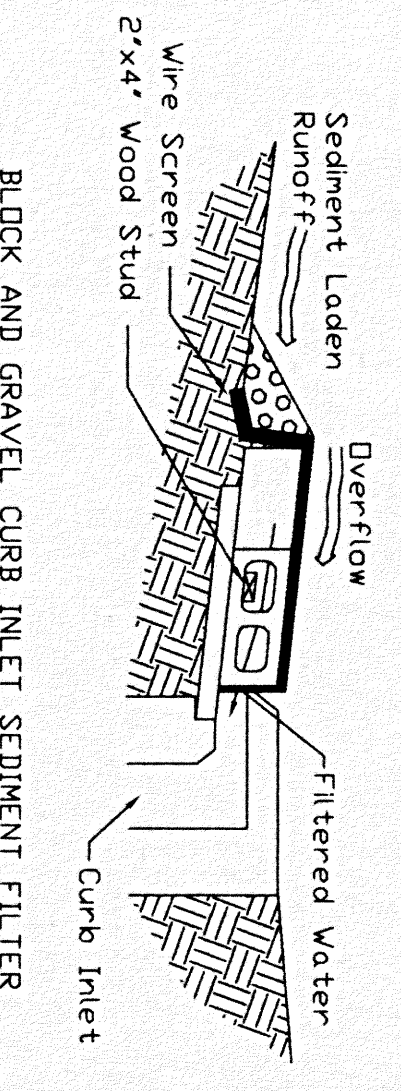
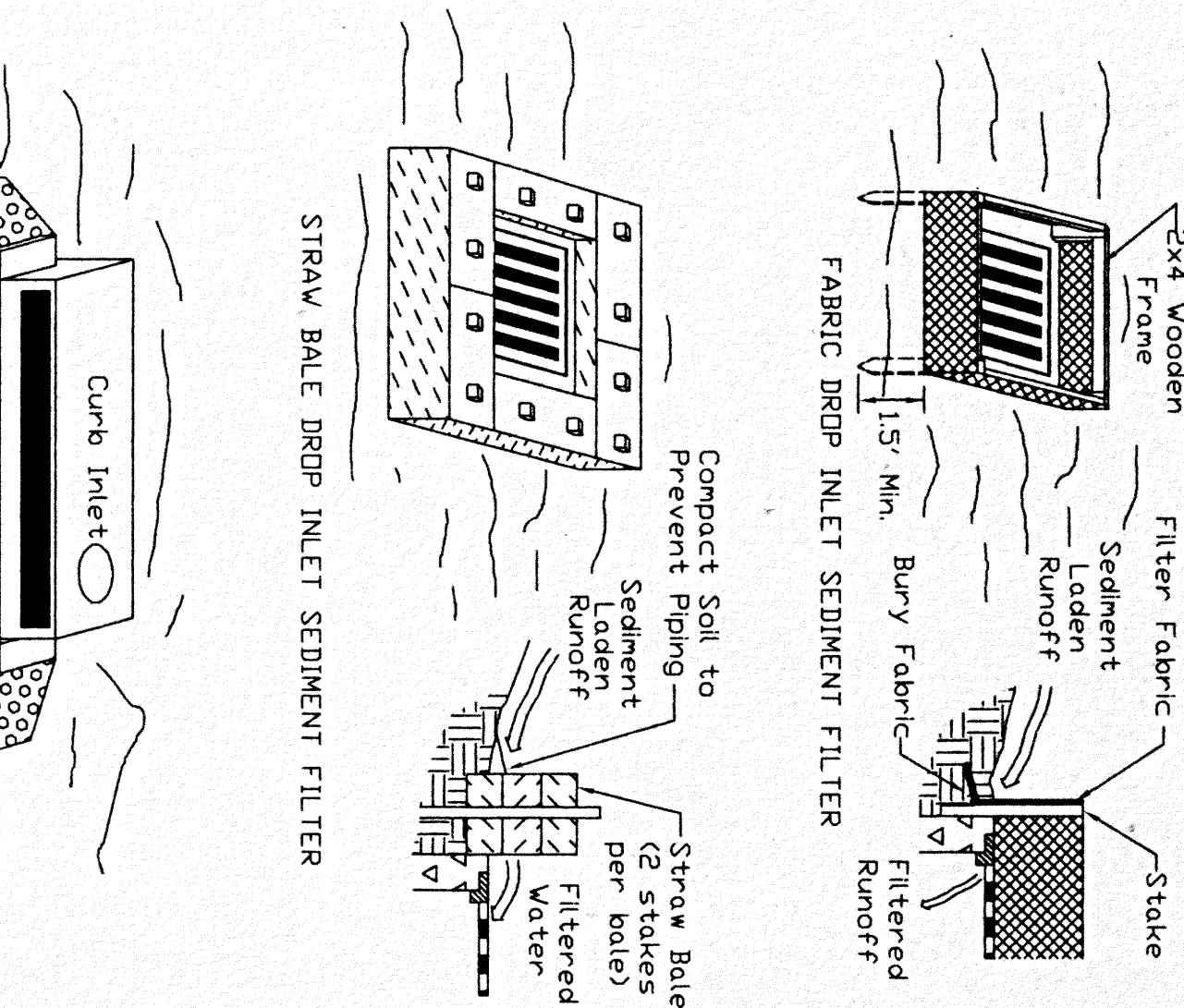
SIGNATURE _____

RESPONSIBLE LAND DISTURBER CERTIFICATE

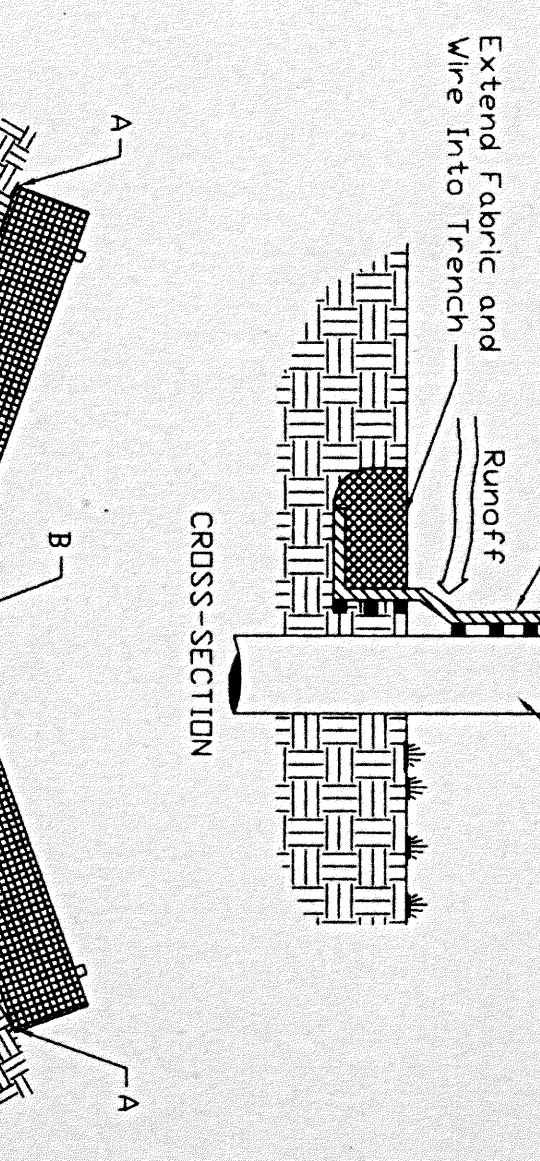
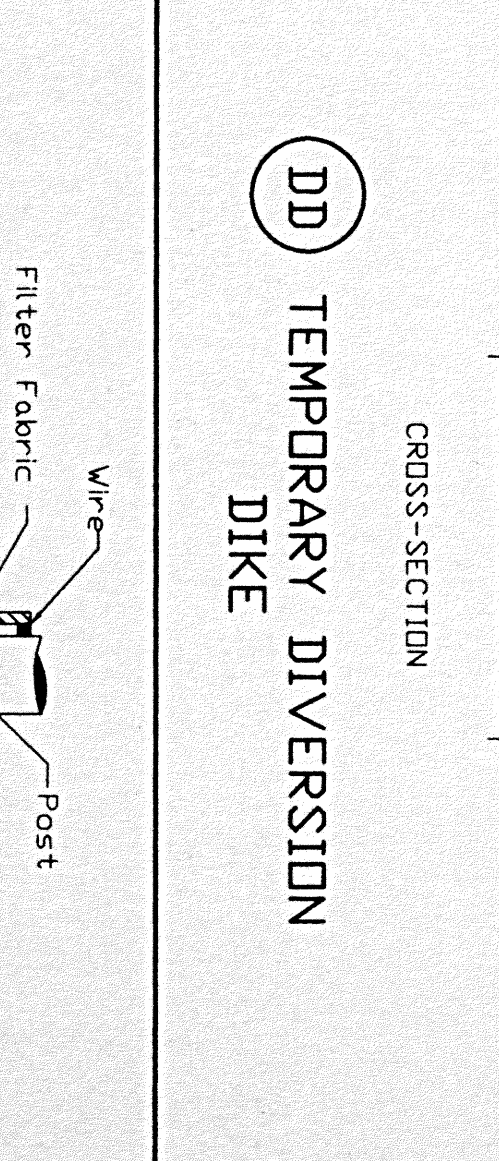
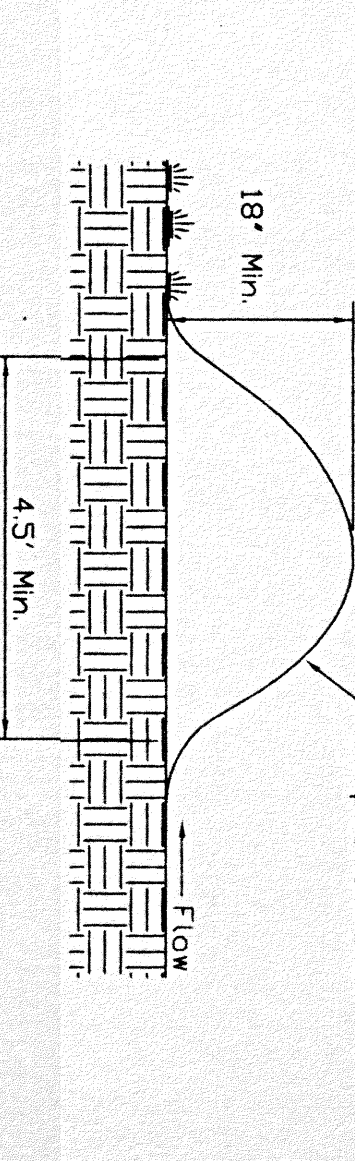
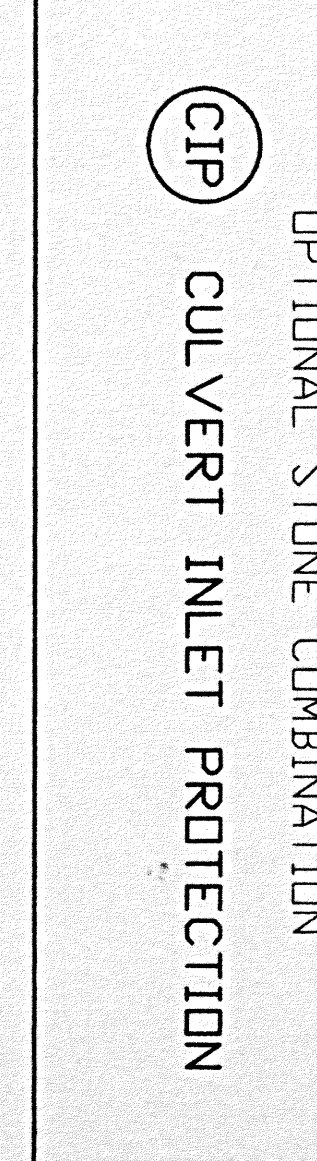
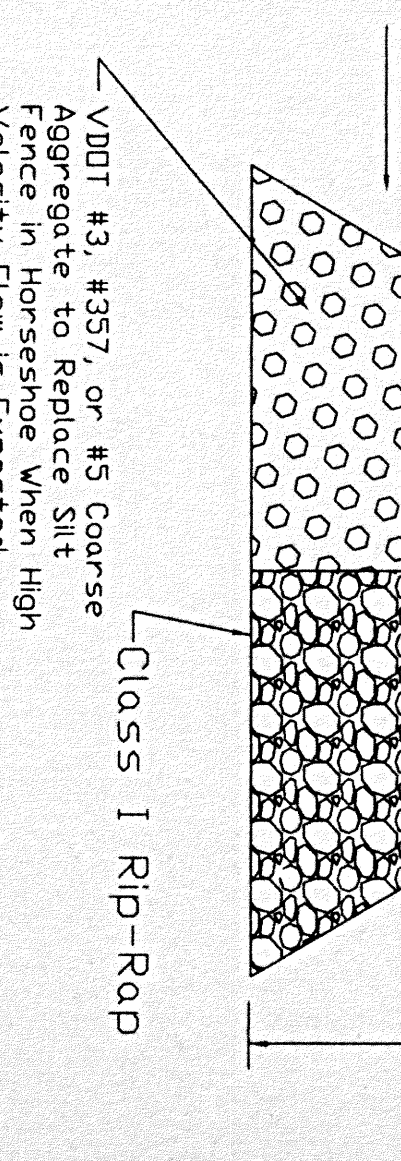
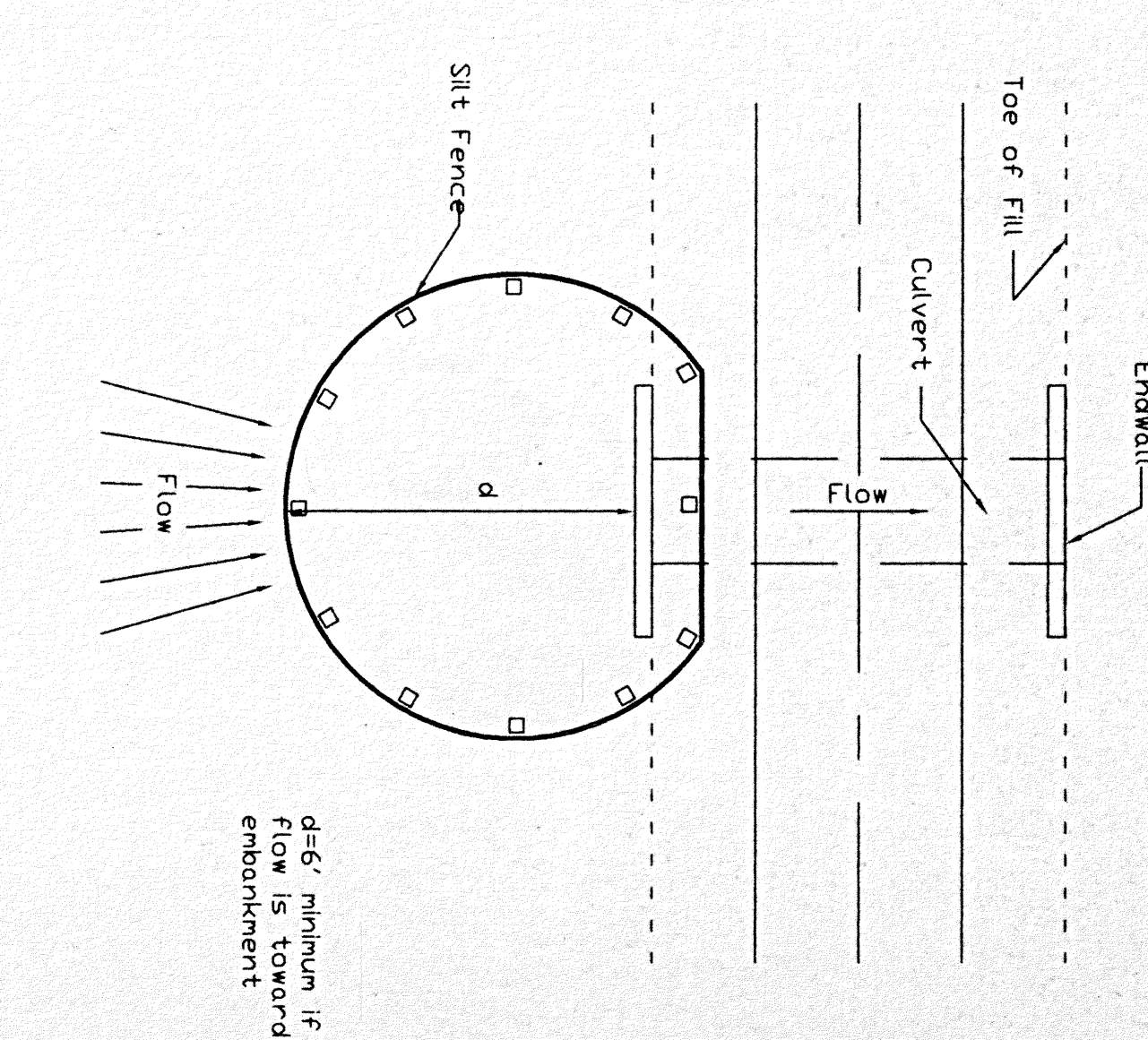
COMPANY NAME _____

ADDRESS _____

PHONE NUMBER _____



IP STORM DRAIN INLET PROTECTION



SF SILT FENCE

EROSION-SILTATION CONTROL COST ESTIMATE

ALL COSTS GIVEN ARE COMPLETE IN PLACE			
DESCRIPTION	UNIT	QUANTITY	TOTAL COST
CONSTRUCTION ENTRANCE	EA	1	\$ 1,250.00
SILT FENCE	LF	1,960	4.50 8,820.00
INLET PROTECTION	EA	10	500.00 5,000.00
CULVERT INLET PROTECTION	EA	2	500.00 1,000.00
DIVERSION DIKE	LF	775	3.00 2,325.00
SEDIMENT BASIN	CY	5,930	5.00 29,650.00
OUTLET PROTECTION	EA	2	300.00 600.00
RIP-RAP	CY	72	60.00 4,320.00
PERMANENT SEEDING	AC	5	1,900.00 9,500.00
SUB-TOTAL			\$62,465.00
10% CONTINGENCY			\$ 6,246.50
TOTAL PROJECT COST			\$ 68,711.50

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6. FOR THE EROSION CONTROL KEY SYMBOLS SHOWN ON THE PLANS, REFER TO THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
7. LOCATION OF ALL OFF-SITE FILL & BORROW AREAS SHALL BE PROVIDED TO ROANOKE COUNTY. EAS PLAN AND/OR MEASURES MAY BE REQUIRED FOR THESE AREAS.

TYPE A	TYPE B (SIDES 3:1 OR STEEPER)
15 OCTOBER 1990 K-3 FESCUE @ 5 LB / 1000 SF BIRCH WINTER RYE @ 1/2 LB / 1000 SF 1 FEBRUARY TO 1 JUNE K-3 FESCUE @ 5 LB / 1000 SF ANNUAL RYE @ 1/2 LB / 1000 SF 1 JUNE TO 1 SEPTEMBER K-3 FESCUE @ 5 LB / 1000 SF GERMAN WHEAT @ 1/2 LB / 1000 SF 1 SEPTEMBER TO 15 OCTOBER ANNUAL RYE @ 1/2 LB / 1000 SF	15 OCTOBER 1990 K-3 FESCUE @ 5 LB / 1000 SF PERENNIAL PEGRAMASS @ 1/2 LB / 1000 SF RED TOP @ 1/8 LB / 1000 SF 15 AUGUST TO 1 OCTOBER GERMAN WHEAT @ 1/2 LB / 1000 SF RED TOP @ 1/8 LB / 1000 SF 1 OCTOBER TO 15 OCTOBER ANNUAL RYE @ 1/2 LB / 1000 SF

LINE: 140 LB / 1000 SF POLYMERIZED AGRICULTURAL LIMESTONE
FERTILIZER 5-20-10 @ 25 LB / 1000 SF
30-0-0 @ 7 LB / 1000 SF
MULCH: SHALL BE USED OVER ALL SEEDD AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 175 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
SOIL CONDITIONING: INCORPORATION OF LINE AND FERTILIZER, SELECTION OF CERTIFIED SEED, MULCHING, MAINTENANCE OF NEW SEEDINGS, AND RESEEDING IN THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLOPE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER IN A FIRM, FRIABLE, SEEDBED. MAINTAIN SEEDING DEPTH SHALL BE 1/4 INCH.

PS PERMANENT SEEDING MIXTURE

TOTAL DISTURBED AREA = 17 AC.

EROSION AND SEDIMENT CONTROL DETAILS FOR "EDGEFIELD", SECTION TWO

STUTE FOUNTAIN LANE
WINTON MASTERIAL DISTRICT
ROANOKE COUNTY, VIRGINIA
PREPARED FOR CHARLES R. SIMPSON, INC.
REVISED: JANUARY 14, 2004
DATE: OCTOBER 11, 2003 NO SCALE

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____
W.O. # 00-1188
N.B. GREGORY
TAX NO. 6101-00-003

TPP&S
ENGINEERS
SURVEYORS
PLANNERS

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