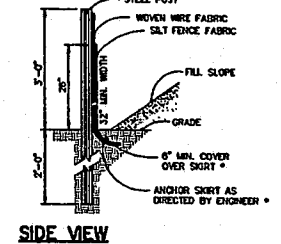


FRONT VIEW

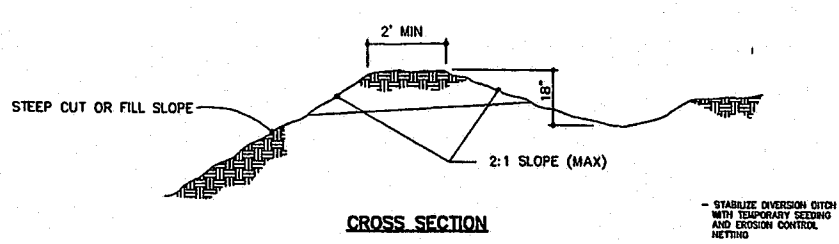


SIDE VIEW

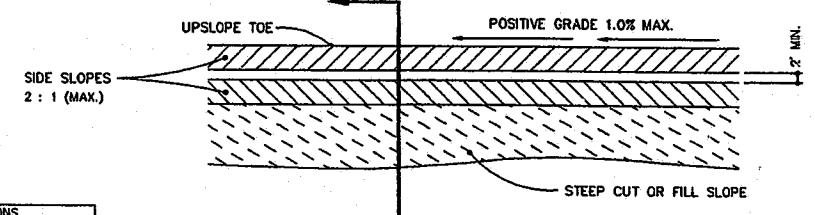
REVISIONS	
DATE	DESCRIPTION

STANDARD TEMPORARY SILT FENCE

STD. No. 4.01



CROSS SECTION

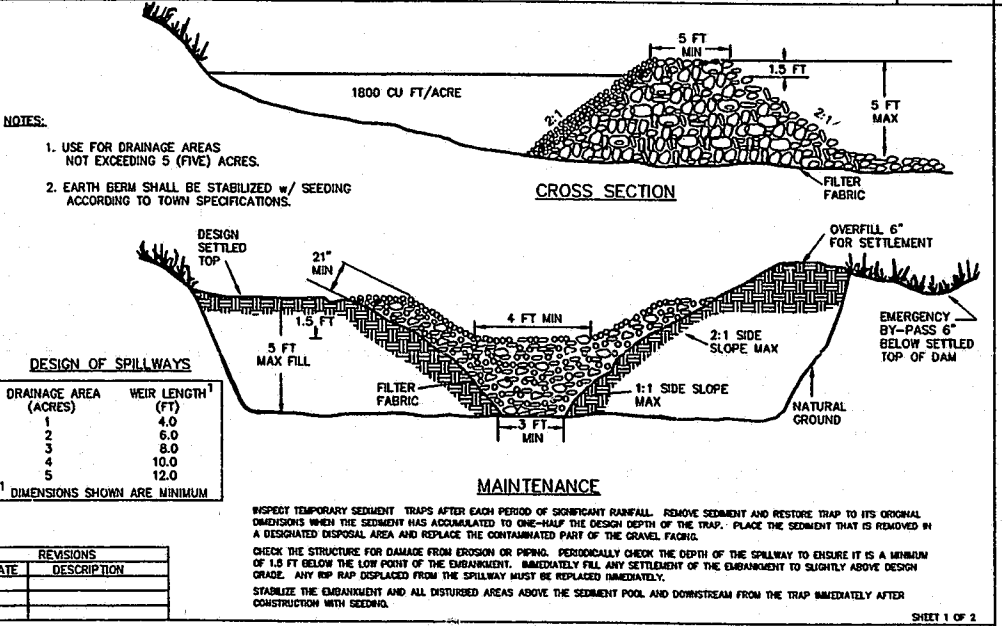


PLAN VIEW

REVISIONS	
DATE	DESCRIPTION

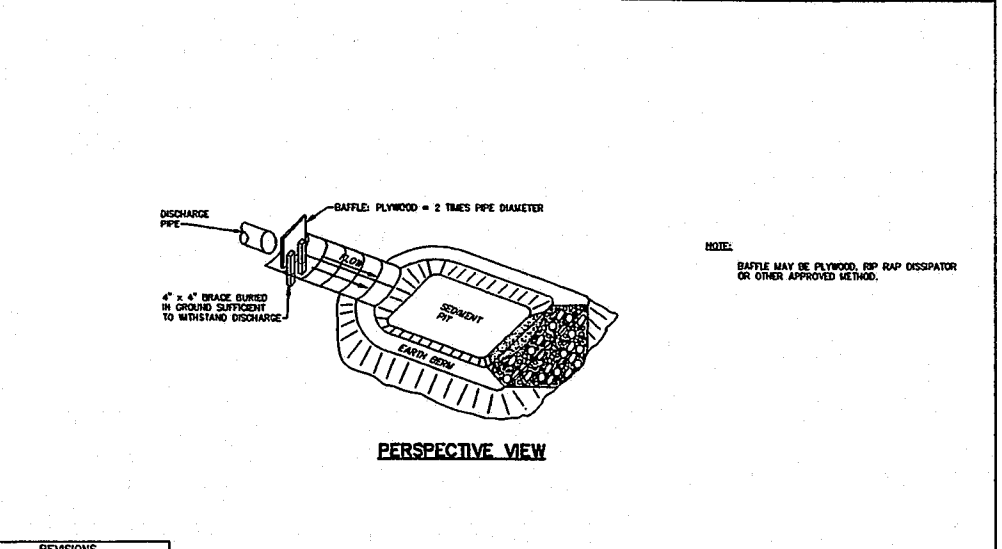
DIVERSION DITCH

STD. No. 4.09



GRAVEL & RIP RAP FILTER BASIN

STD. No. 4.03

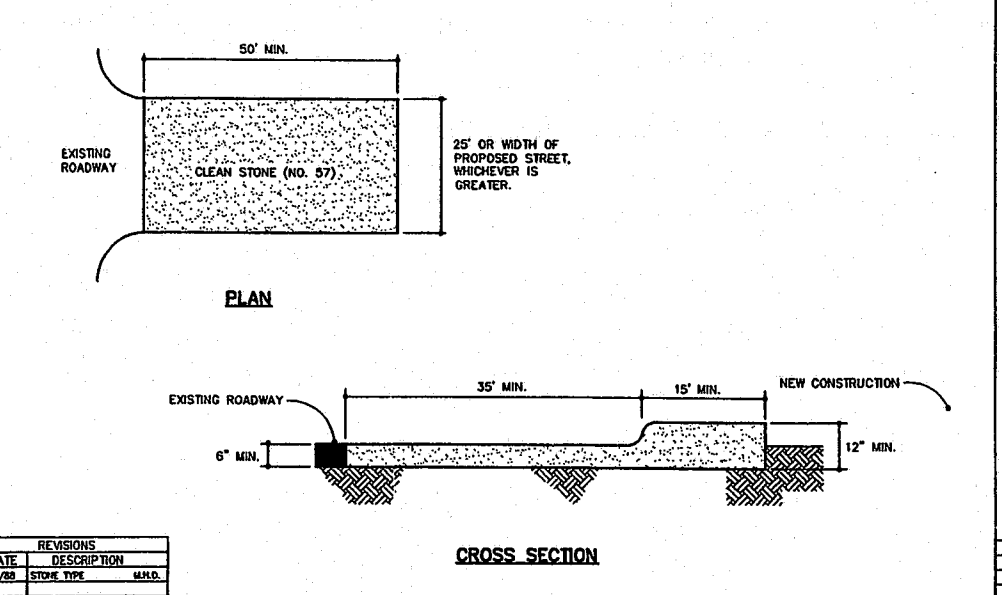


PERSPECTIVE VIEW

REVISIONS	
DATE	DESCRIPTION

GRAVEL & RIP RAP FILTER BASIN

STD. No. 4.03



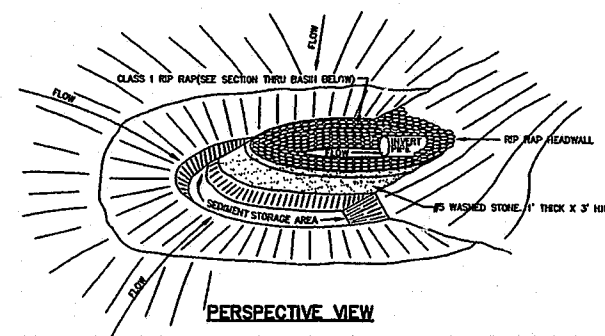
PLAN

CROSS SECTION

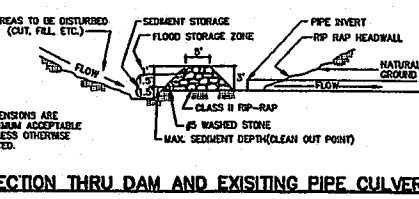
REVISIONS	
DATE	DESCRIPTION

CONSTRUCTION ENTRANCE

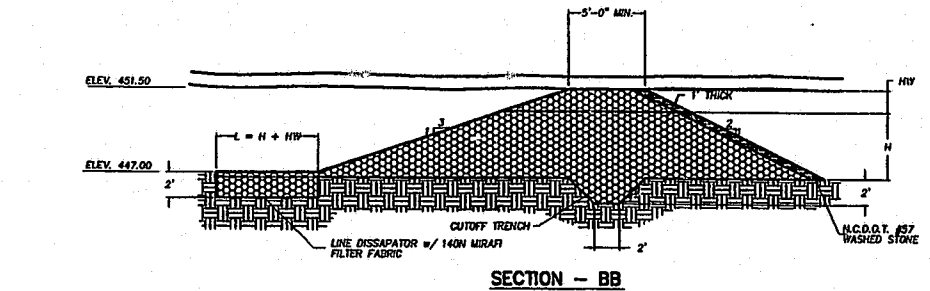
STD. No. 4.07



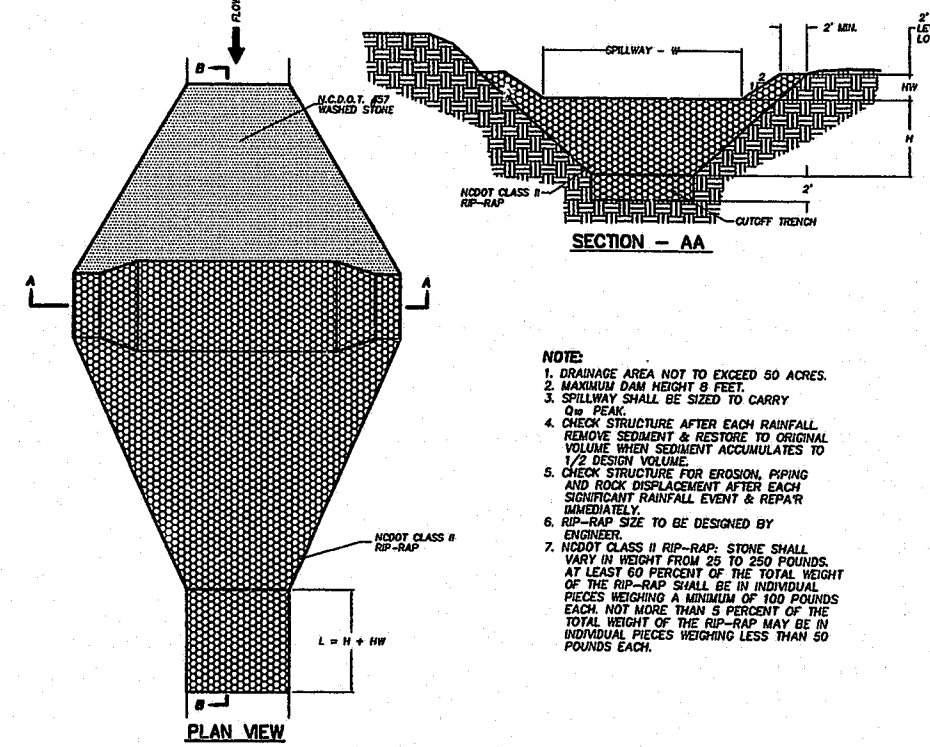
PERSPECTIVE VIEW



SECTION THRU DAM AND EXISTING PIPE CULVERT



SECTION - BB



SECTION - AA

PLAN VIEW

- NOTES:
- DRAINAGE AREA NOT TO EXCEED 50 ACRES.
  - MAXIMUM DAM HEIGHT 8 FEET.
  - SPILLWAY SHALL BE SIZED TO CARRY Q<sub>10</sub> PEAK.
  - CHECK STRUCTURE AFTER EACH RAINFALL. REMOVE SEDIMENT & RESTORE TO ORIGINAL VOLUME WHEN SEDIMENT ACCUMULATES TO 1/2 DESIGN VOLUME.
  - CHECK STRUCTURE FOR EROSION, SPONGING AND ROCK DISPLACEMENT AFTER EACH SIGNIFICANT RAINFALL EVENT & REPAIR IMMEDIATELY.
  - RIP-RAP SIZE TO BE DESIGNED BY ENGINEER.
  - HOCKY CLASS B RIP-RAP STONE SHALL VARY IN HEIGHT FROM 25 TO 250 POUNDS. AT LEAST 50 PERCENT OF THE TOTAL HEIGHT OF THE RIP-RAP SHALL BE IN INDIVIDUAL PIECES WEIGHING A MINIMUM OF 100 POUNDS EACH. NOT MORE THAN 5 PERCENT OF THE TOTAL HEIGHT OF THE RIP-RAP MAY BE IN INDIVIDUAL PIECES WEIGHING LESS THAN 50 POUNDS EACH.

NO SCALE

ROCK DAM DETAIL

REVISIONS	
DATE	DESCRIPTION

TEN-TEN KILDAIRE APARTMENTS  
EROSION CONTROL NARRATIVE

THE 28.01 ACRE, (OUTSIDE OF THE RIGHT-OF-WAY), SITE IS LOCATED AT THE SOUTHWEST QUADRANT OF THE INTERSECTION OF KILDAIRE FARM ROAD AND SR1010. THE SITE IS TO BE DEVELOPED AS RESIDENTIAL APARTMENTS. SEDIMENT RUNOFF IS TO BE CONTROLLED AT THE PERIMETER OF THE SITE WITH DIVERSION DITCHES, TWO FILTER BASINS AND A HORSESHOE FILTER BASIN. THE MAJORITY OF THE SITE DRAINS TO A CULVERT BENEATH KILDAIRE FARM ROAD WHERE THE HORSESHOE FILTER IS TO BE INSTALLED.

THE TOTAL DENUDED AREA IS 23.5 ACRES.

NO FEMA MAPPED FLOODPLAIN EXISTS ON THIS SITE PER FIRM MAP NUMBER 37183C0492E AND 37183C0511E, DATED MARCH 3, 1992.

THE RECEIVING WATERCOURSE IS AN UNNAMED TRIBUTARY OF MIDDLE CREEK, THEREFORE NO WATERSHED PROTECTION REQUIREMENTS APPLY.

THE PERSON RESPONSIBLE FOR CONSTRUCTION IS:

CEDAR QUEEN DEVELOPMENT  
117 EDINBURGH SOUTH  
SUITE 105  
CARY, NORTH CAROLINA 27511  
(919) 469-8674  
C/O MR. BOB JONES

SEEDBED PREPARATION

- Chisel compacted areas and spread topsoil 3 inches deep over adverse soil conditions, if available.
  - Rip the entire area to 6 inches depth.
  - Remove all loose rock, roots and other obstructions leaving surfaces reasonably smooth and uniform.
  - Apply agricultural lime, fertilizer, and superphosphate uniformly and mix with soil (see below).
  - Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared 4 to 6 inches deep.
  - Seed a freshly prepared seedbed and cover seed lightly with seeding equipment or cultipack after seeding.
  - Mulch immediately after seeding and anchor mulch.
  - Inspect all seeded areas and make necessary repairs or reseedings within the planting season, if possible. If stand should be over 60% damaged, reestablish following original lime, fertilizer and seeding rates.
  - Consult Conservation Inspector on maintenance treatment and fertilization after permanent cover is established.
- \* Apply Agricultural Limestone - 2 Tons/Acre (3 Ton per Acre on clay soils)  
Fertilizer - 1,000 lbs./acre - 10-10-10  
Superphosphate - 500 lbs./acre - 20%  
Mulch - 2 Tons/Acre - small grain straw  
Anchor - Asphalt Emulsion @ 300 gal. acre

SEEDING SCHEDULE

DATE	TYPE	PLANTING RATE
Aug 15 - Nov 1	Tall Fescue	300 lbs/acre
Nov 1 - Mar 1	Tall Fescue & Abruzzi Rye	300 lbs/acre
Mar 1 - Apr 15	Tall Fescue	300 lbs/acre
Apr 15 - June 30	Hulled Common Bermudagrass	25 lbs/acre
July 15 - Aug 15	Tall Fescue or Sorghum-Sudan Hybrids	35 lbs/acre
SLOPES (3:1 to 2:1)		
Mar 1 - June 1	Sericea Lespedeza (scarified) and	50 lbs/acre
Mar 1 - Apr 15	ADD Tall Fescue	120 lbs/acre
Mar 1 - June 30	ADD Weeping Lovegrass or	10 lbs/acre
Mar 1 - June 30	ADD Hulled Common Bermudagrass	25 lbs/acre
June 1 - Sep 1	or Tall Fescue and Browntop Millet or Sorghum-Sudan Hybrids	120 lbs/acre 35 lbs/acre 30 lbs/acre
Sep 1 - Mar 1	Sericea Lespedeza (unhulled-unscarified) and Tall Fescue	70 lbs/acre 120 lbs/acre
Nov 1 - Mar 1	ADD Abruzzi Rye	25 lbs/acre

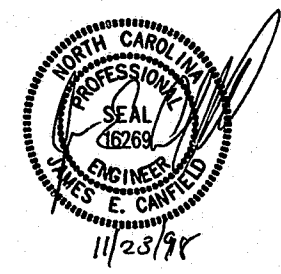
Consult Erosion Control Engineer or Soil Conservation Service for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those which do well under local conditions; other seeding rate combinations are possible.

Temporary - Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow over 12 inches in height before mowing, otherwise fescue may be shaded out.

CONSTRUCTION SEQUENCE

- Obtain Grading Permit.
- Install all erosion control measures as shown.
- Obtain Certificate of Compliance through on-site inspection by Town Erosion Control Engineer.
- Proceed with grading.
- Clean sediment basins when half full.
- Seed and mulch denuded area within 30 days after finished grades are established.
- Maintain soil erosion control measures until permanent ground cover is established.
- Request final approval by Town Erosion Control Engineer.
- Remove soil erosion control measures and stabilize these areas.

98-57-244  
APPROVED  
BB 1-15-99  
TM 1-19-99



K:\CADD\98\35\sh18.dwg Tue Nov 24 03:32:45 1998 WITHERS & RAVENEL ENGINEERING & SURVEYING, INC.

**WITHERS & RAVENEL Engineering & Surveying, Inc.**  
111 MacKenan Drive - Cary, N.C. 27511  
919-469-3340 FAX 919-467-6008

Revisions			
No.	Description	Date	By
1	1st Review	10/20/98	JAB
2	2nd Review		

TEN-TEN KILDAIRE APARTMENTS

EROSION CONTROL DETAILS

Designer	Scale	CAD File
W&R	NTS	SH18.DWG
Drawn By	Date	Sheet No.
GAS	10/13/98	8
Checked By	Job No.	
JEC	98135	