

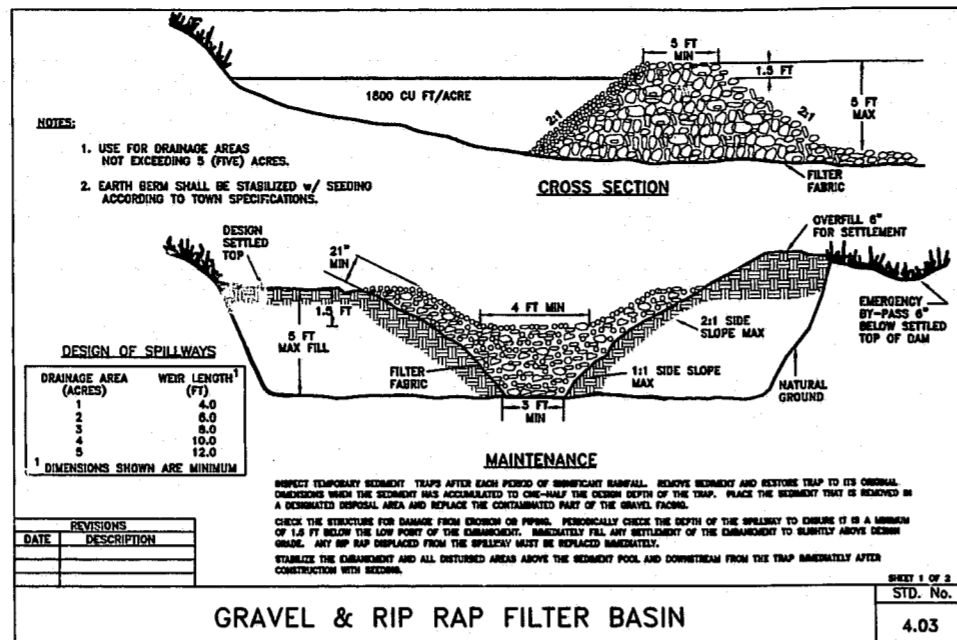
WITHERS & RAVENEL
Engineering & Surveying, Inc.

111 MacKenan Drive
Cary, N.C. 27511
PHONE : 919-469-3340
FAX : 919-467-8008

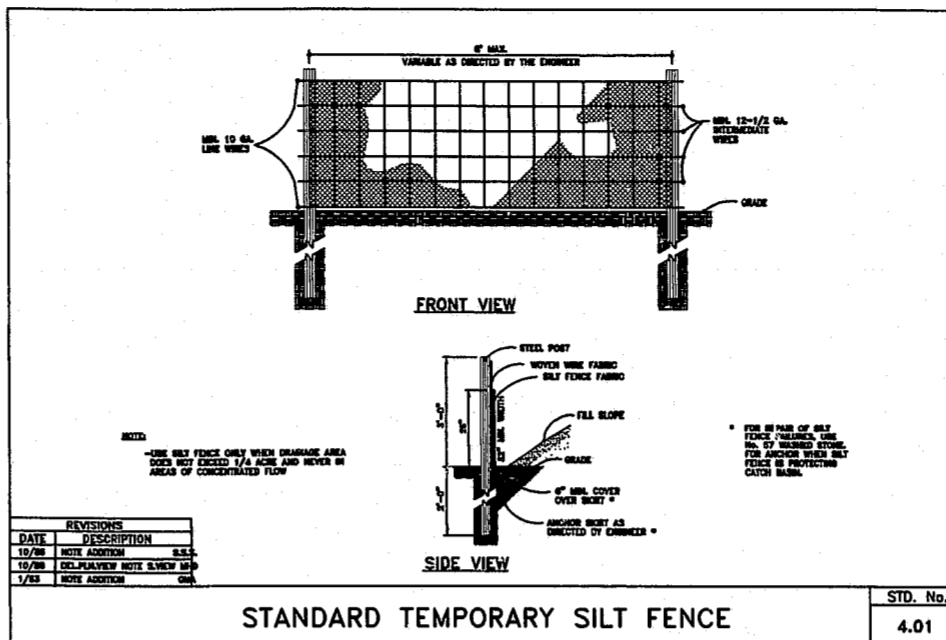
SEALS

CONSTRUCTION SEQUENCE

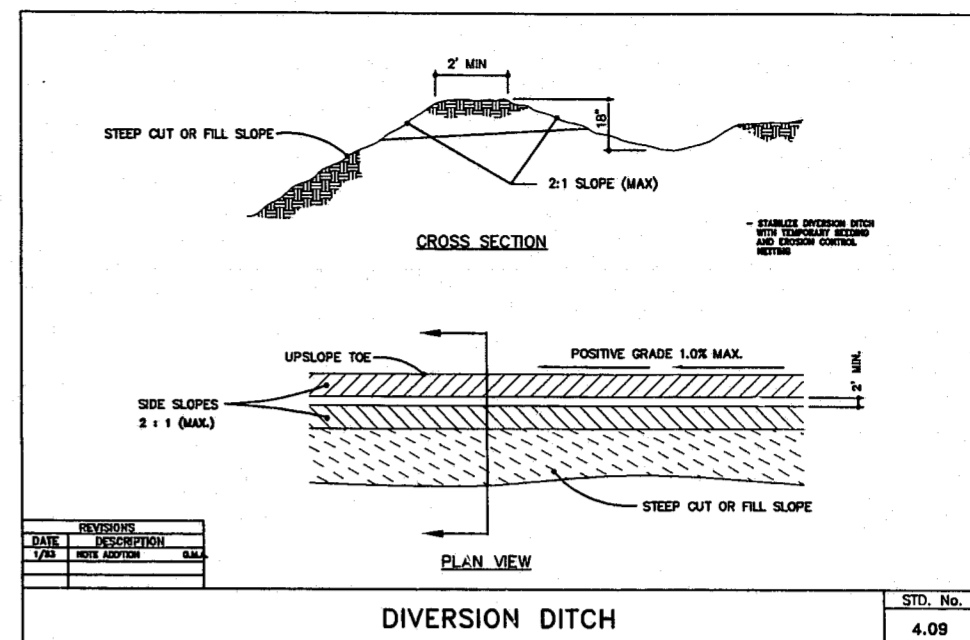
- 1) Obtain Grading Permit.
- 2) Install all erosion control measures as shown.
- 3) Obtain Certificate of Compliance through on-site inspection by Town Erosion Control Engineer.
- 4) Proceed with grading.
- 5) Clean sediment basins when half full.
- 6) Seed and mulch denuded area within 30 days after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



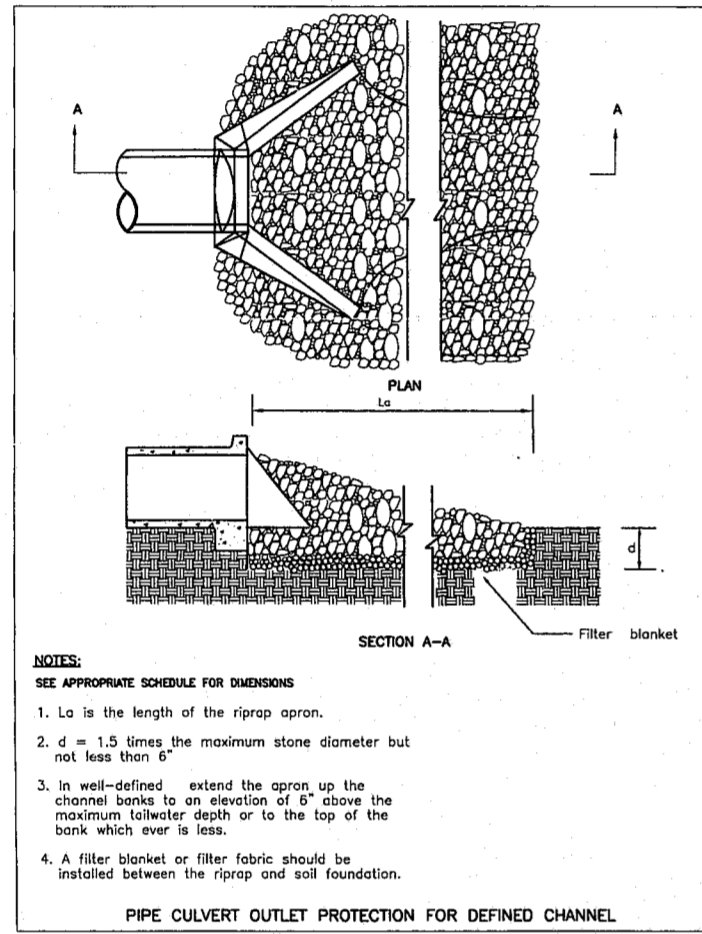
GRAVEL & RIP RAP FILTER BASIN



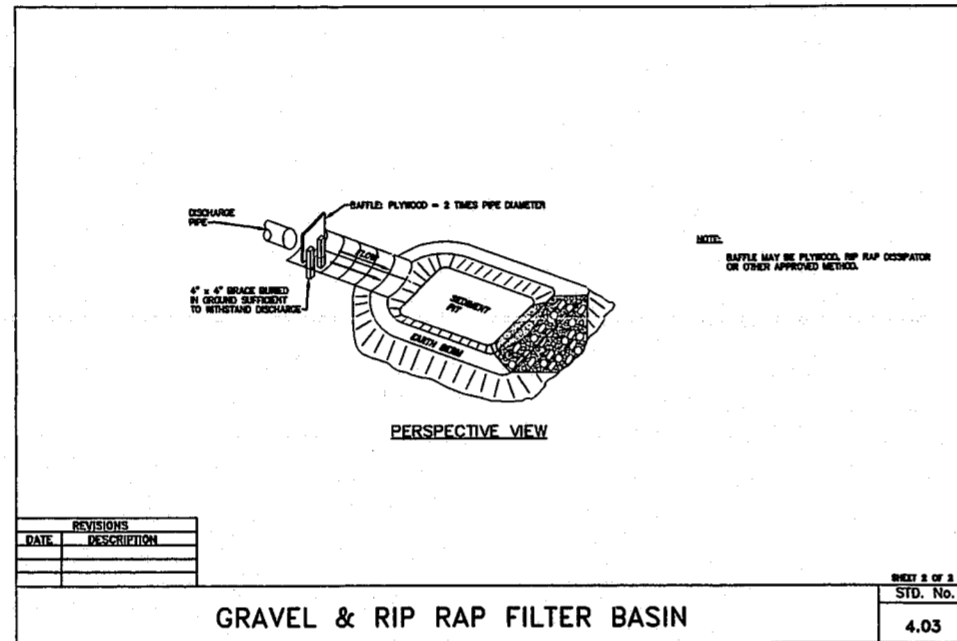
STANDARD TEMPORARY SILT FENCE



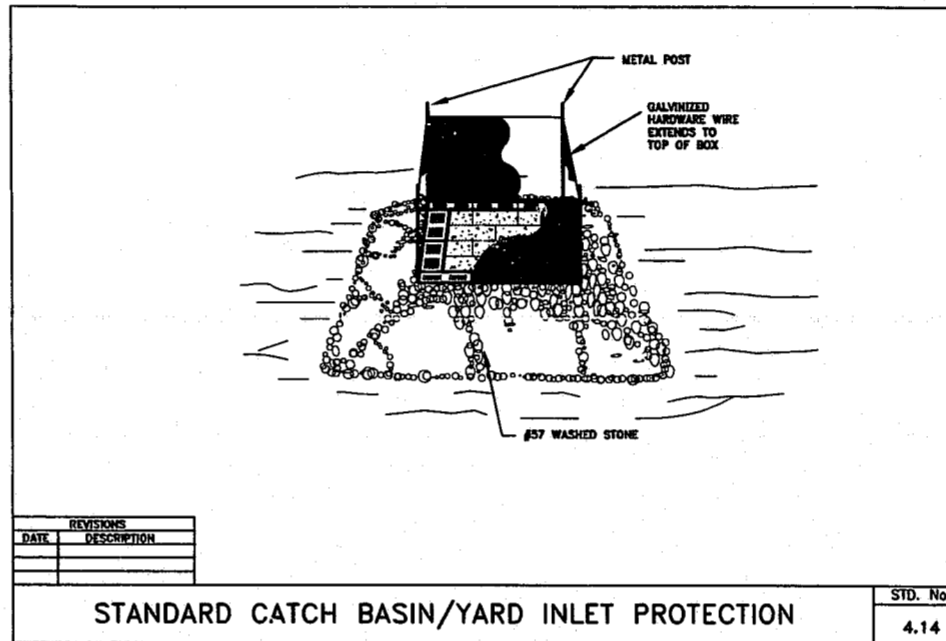
DIVERSION DITCH



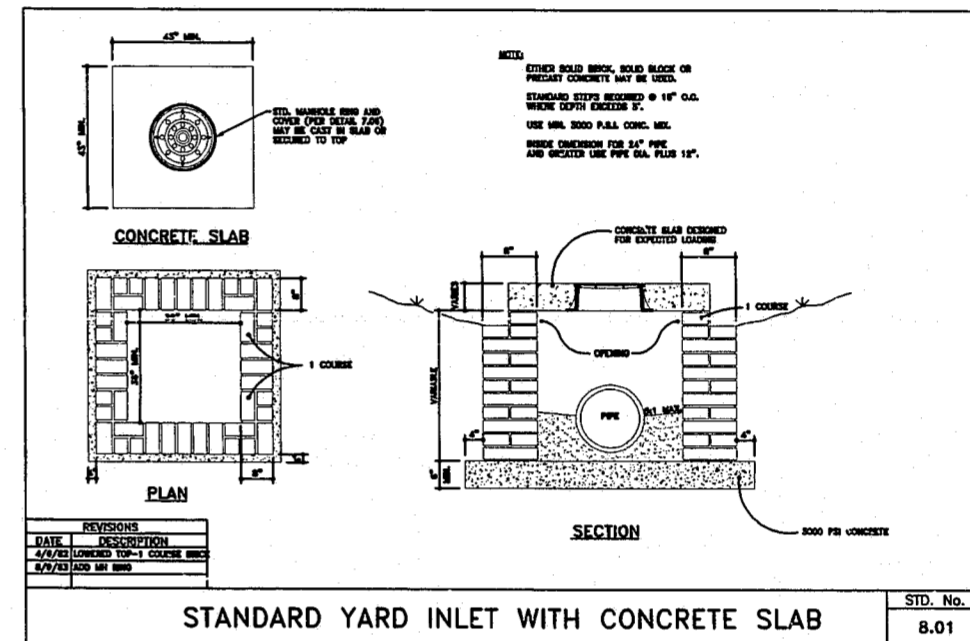
PIPE CULVERT OUTLET PROTECTION FOR DEFINED CHANNEL



GRAVEL & RIP RAP FILTER BASIN



STANDARD CATCH BASIN/YARD INLET PROTECTION



STANDARD YARD INLET WITH CONCRETE SLAB

SEEDBED PREPARATION

- 1) Chisel compacted areas and spread topsoil 3 inches deep over adverse soil conditions, if available.
- 2) Rip the entire area to 6 inches depth.
- 3) Remove all loose rock, roots and other obstructions leaving surfaces reasonably smooth and uniform.
- 4) Apply agricultural lime, fertilizer, and superphosphate uniformly and mix with soil (see below).
- 5) Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared 4 to 6 inches deep.
- 6) Seed a freshly prepared seedbed and cover seed lightly with seeding equipment or cutback after seeding.
- 7) Mulch immediately after seeding and anchor mulch.
- 8) 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.
- 9) Consult Conservation Inspector on maintenance treatment and fertilization after permanent cover is established.

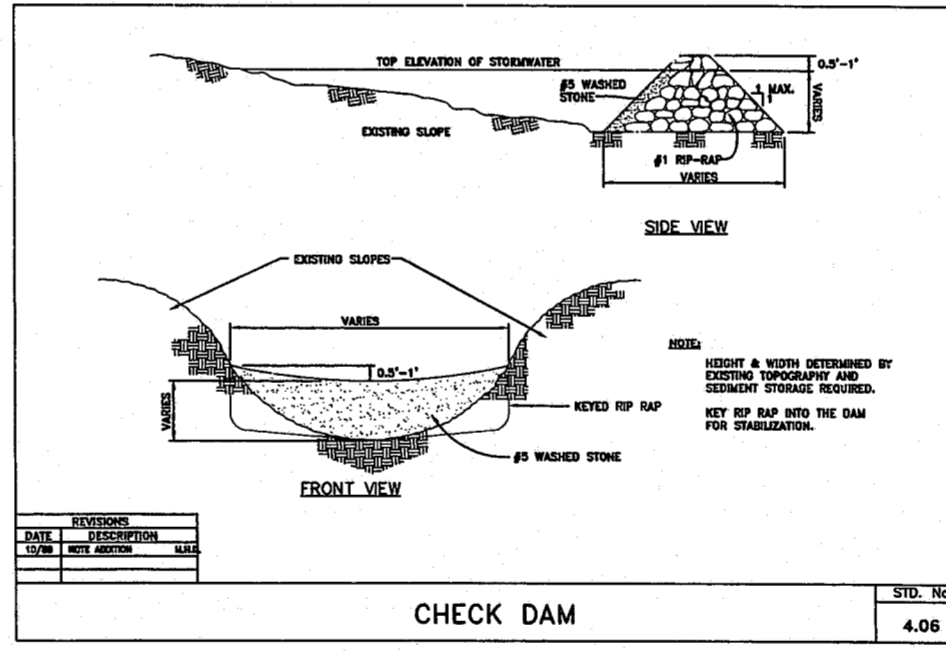
* Apply: Agricultural Limestone - 2 Tons/Acre (3 Ton per Acre on clay soils)
Fertilizer - 1,000 lbs./acre - 10-10-10
Superphosphate - 500 lbs./acre - 20%
Mulch - 2 Tons/Acre - small grain straw
Anchor - Asphalt Emulsion @ 300 gal. acre

SEEDING SCHEDULE
SHOULDERS, SIDE DITCHES, SLOPES (max. 3:1)

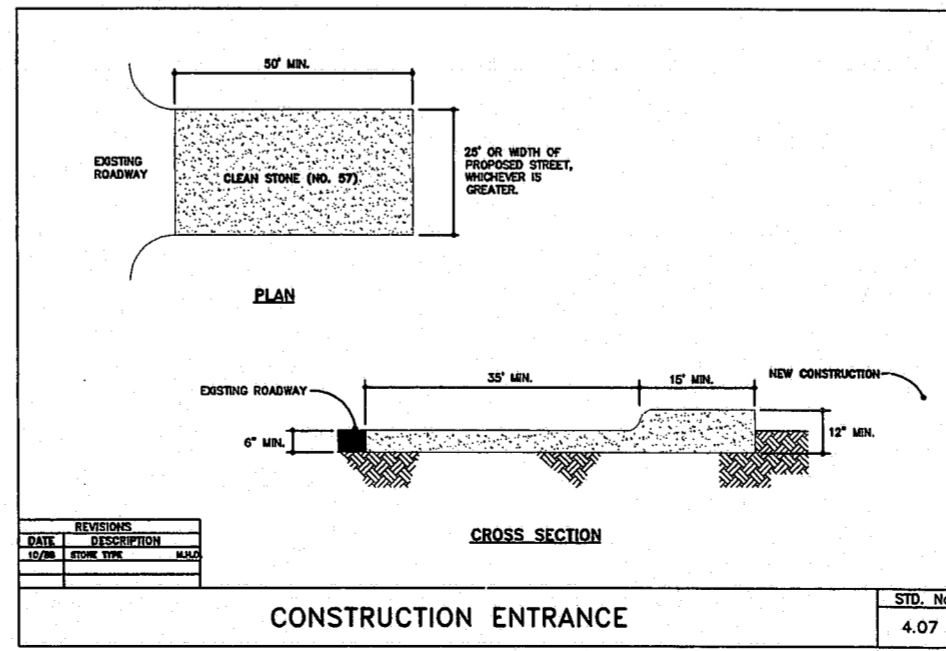
| DATE | TYPE | PLANTING RATE |
|----------------------------|--|--|
| Aug 15 - Nov 1 | Tall Fescue | 300 lbs/acre |
| Nov 1 - Mar 1 | Tall Fescue & Abruzzi Rye | 300 lbs/acre |
| Mar 1 - Apr 15 | Tall Fescue | 300 lbs/acre |
| Apr 15 - June 30 | Hulled Common Bermudagrass | 25 lbs/acre |
| July 15 -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

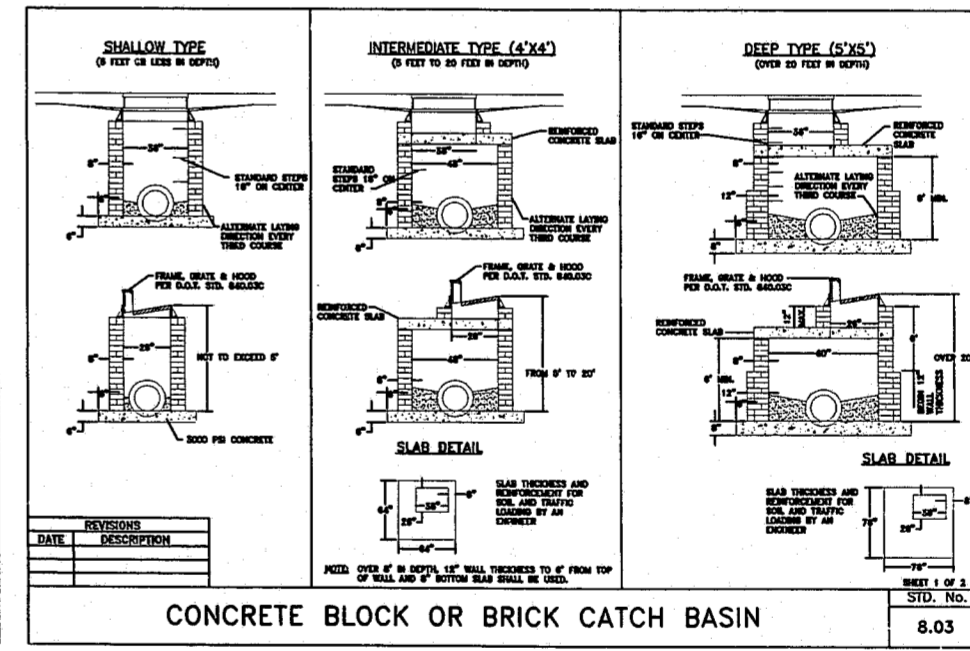
*** Temporary - Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow over 12 inches in height before mowing, otherwise fescue may be shaded out.



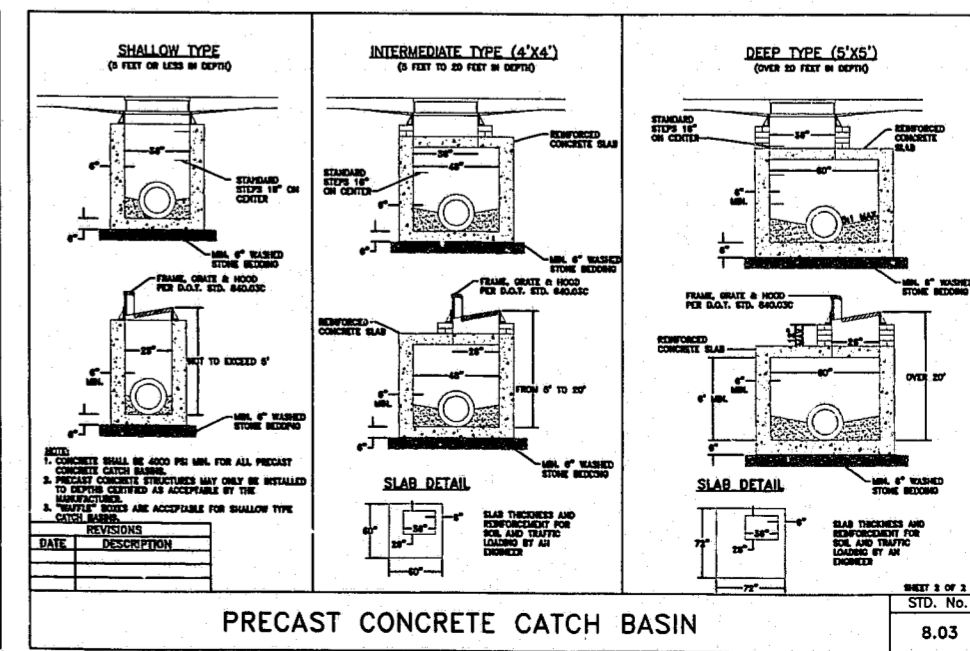
CHECK DAM



CONSTRUCTION ENTRANCE



CONCRETE BLOCK OR BRICK CATCH BASIN



PRECAST CONCRETE CATCH BASIN

DRAWING TITLE
EROSION CONTROL & STORM DRAINAGE DETAILS

PROJECT TITLE
WEST PARK
PRELIMINARY
NOT APPROVED FOR CONSTRUCTION

REVISIONS

| NUMBER | DESCRIPTION | DATE |
|--------|----------------------|---------|
| 1 | TOC 1ST REV COMMENTS | 11/1/98 |

DRAWN BY: DOU/ATB
CHECKED BY: LGS
DATE ISSUED: 8/1/1997
SCALE: NTS
JOB NO.: 96184

SHEET NO. **6.1**

K:\CAD\DRAWINGS\EROSION\1.dwg FRI Dec 11 16:25:47 1998 WITHERS & RAVENEL, ENGINEERING & SURVEYING, INC.
HP Design/Plot 650C Hewlett-Packard HP-GL/2 devices, ADI 4.3 - for autocad by HP