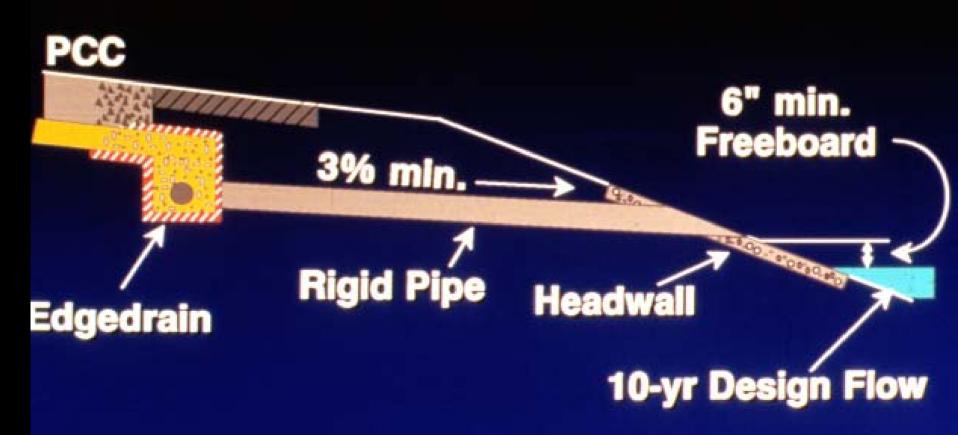


To Drain or not to Drain That is a Hellava Question

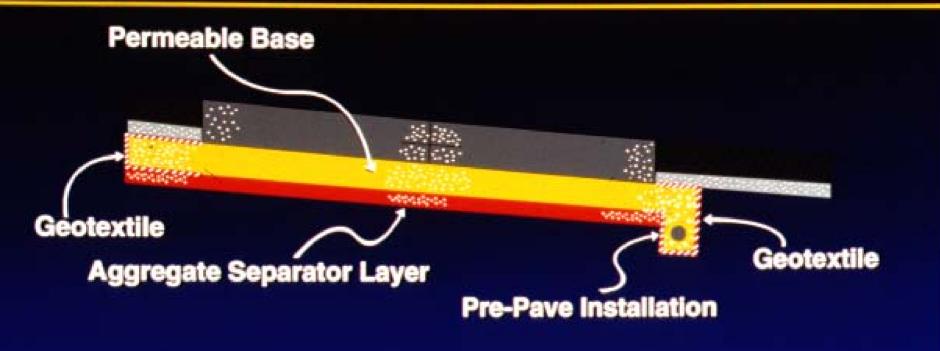


OUTLET PIPE



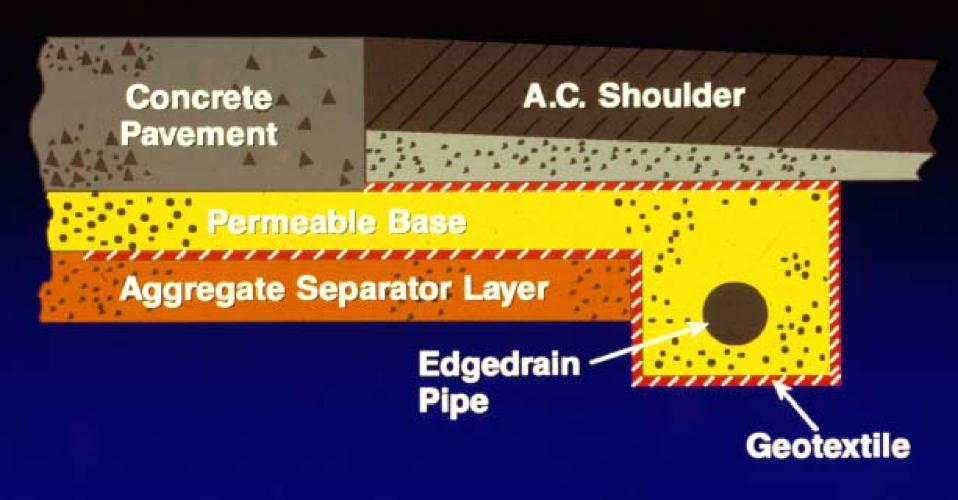
PCC Pavements

EDGEDRAIN LOCATION - A.C SHOULDERS

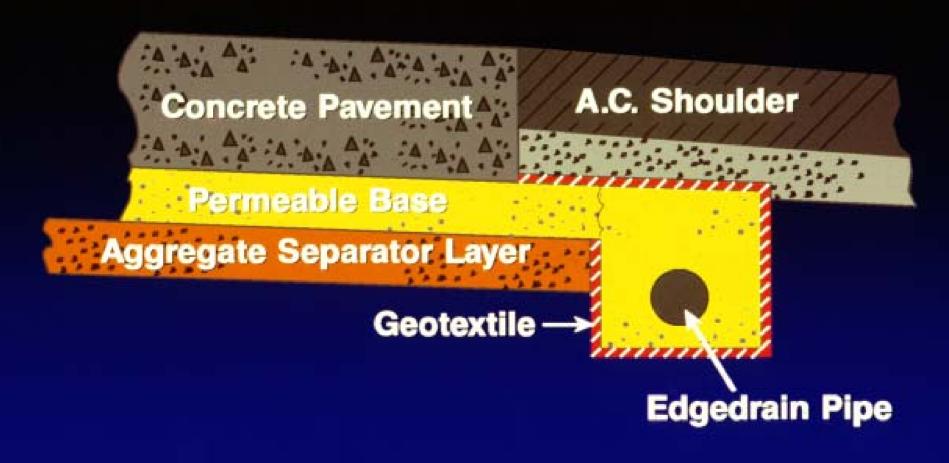




PRE-PAVE INSTALLATION



POST PAVE INSTALLATION

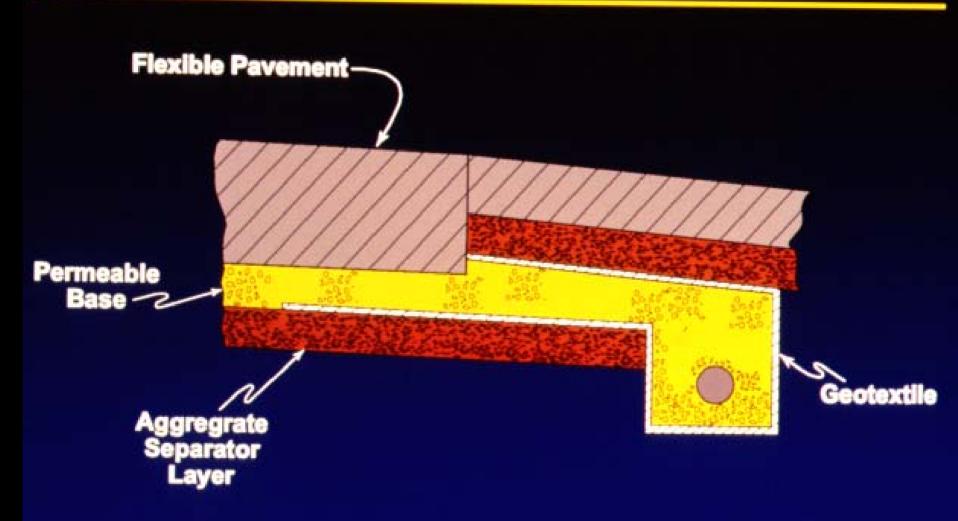


Flexible Pavements

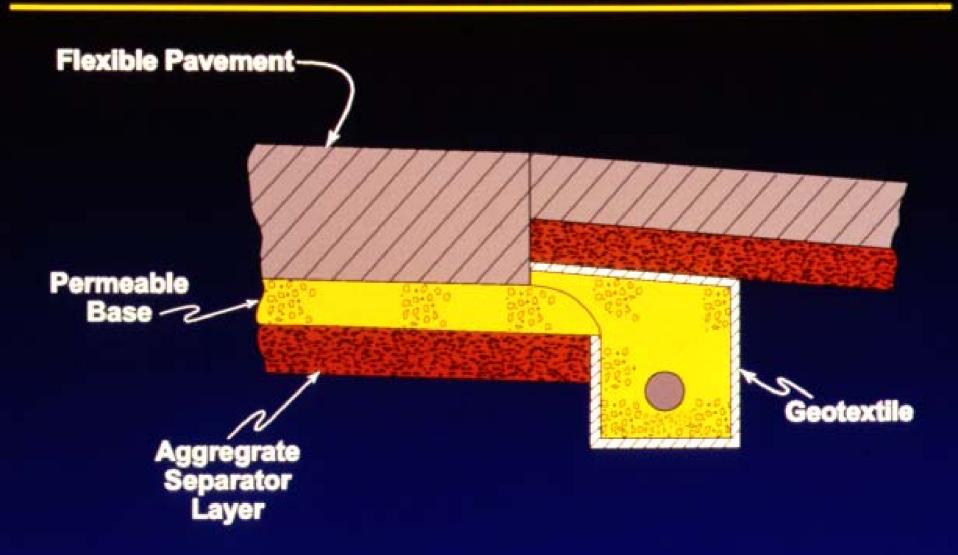
FLEXIBLE PAVEMENT

Aggregate Permeable Geotextile Base Layer

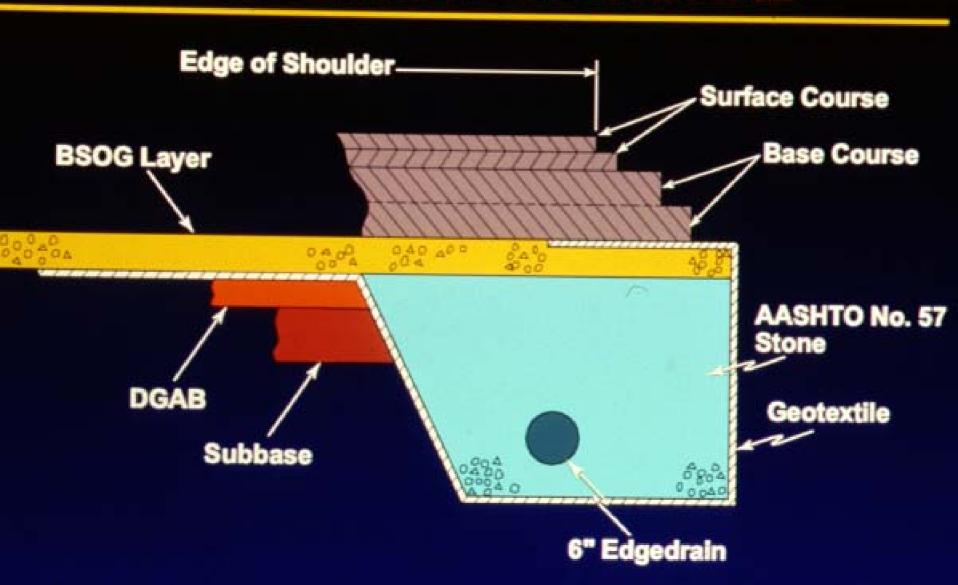
PRE-PAVE INSTALLATION



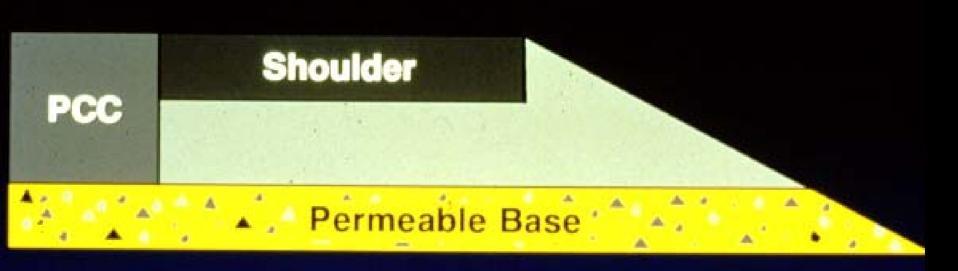
POST-PAVE INSTALLATION



NEW JERSEY STANDARD



DAYLIGHTING



Not Recommended















Federal Highway Administration

VIDEO INSPECTION OF HIGHWAY EDGEDRAIN SYSTEMS

BENEFITS

- Quality Control
- Determine Maintenance Needs

PURPOSE

- Qualitative Picture of Edgedrain Conditions
- Demonstrate Video Equipment

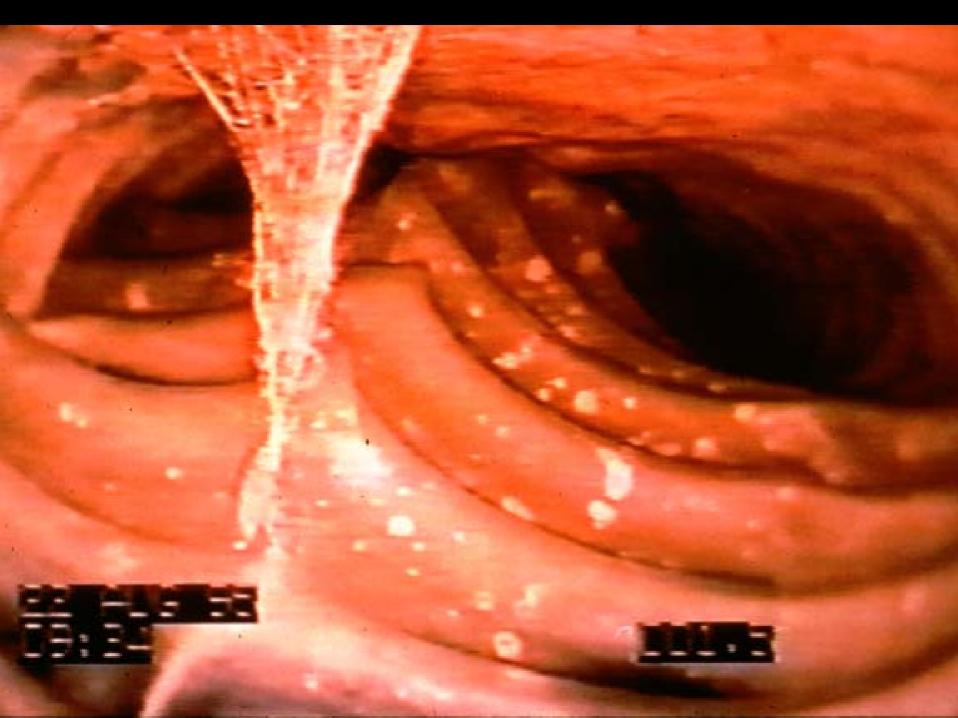
VIDEO INSPECTIONS OF EDGE DRAINS















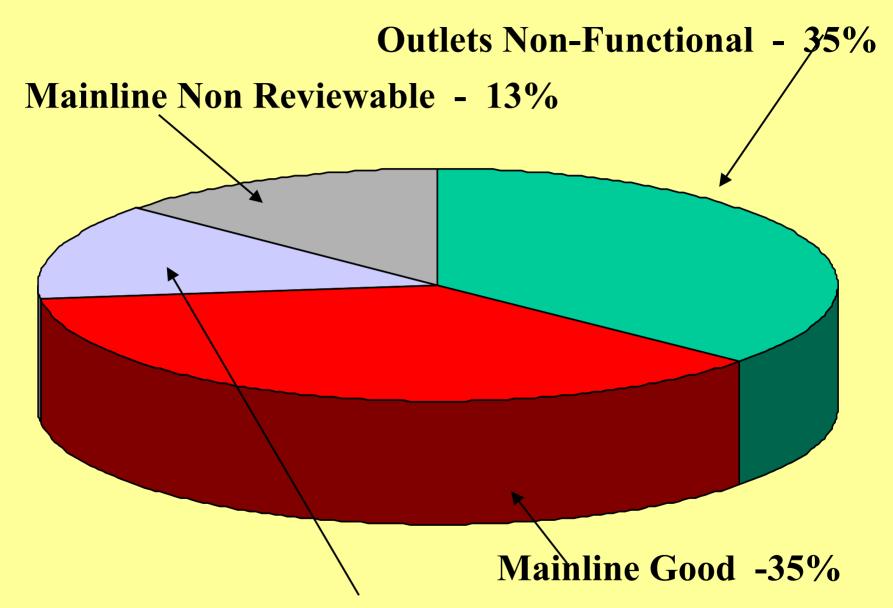






GREAT! A SNAKE UITH HEADLIGHTS-JUST WHAT I NEED. 0:09:08





Mainline Non-Functional - 17%

Drainage Suggestions

PERMEABLE BASE

- Asphalt or Cement Stabilized
- Emphasis on Stability

NEW JERSEY BSOG

Sieve Sieve Percent Passing

1" 100

3/4" 95 – 100

1/2" 85 – 100

60 - 90

No.4 15-25

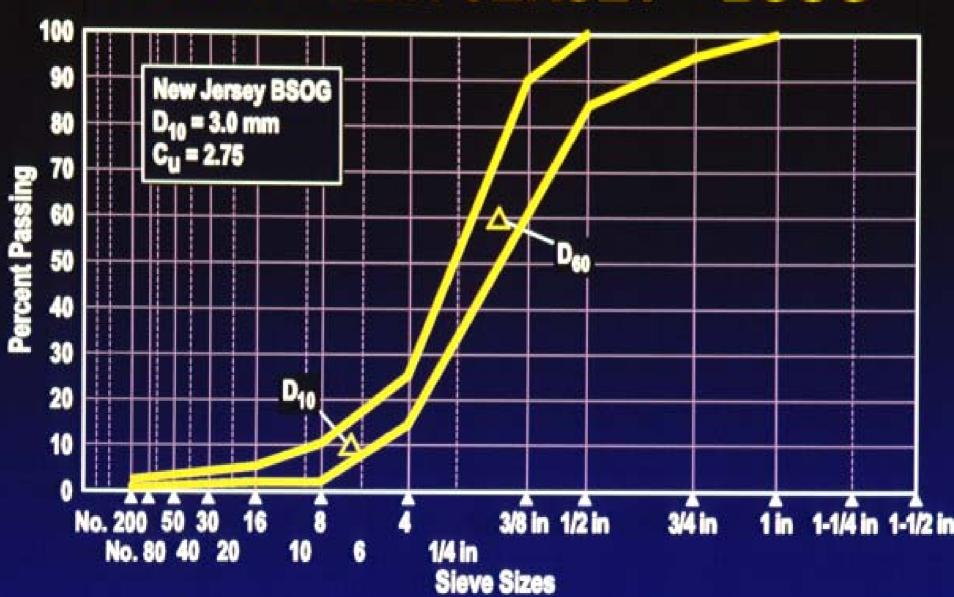
No.8 2-10

No.16 2-5

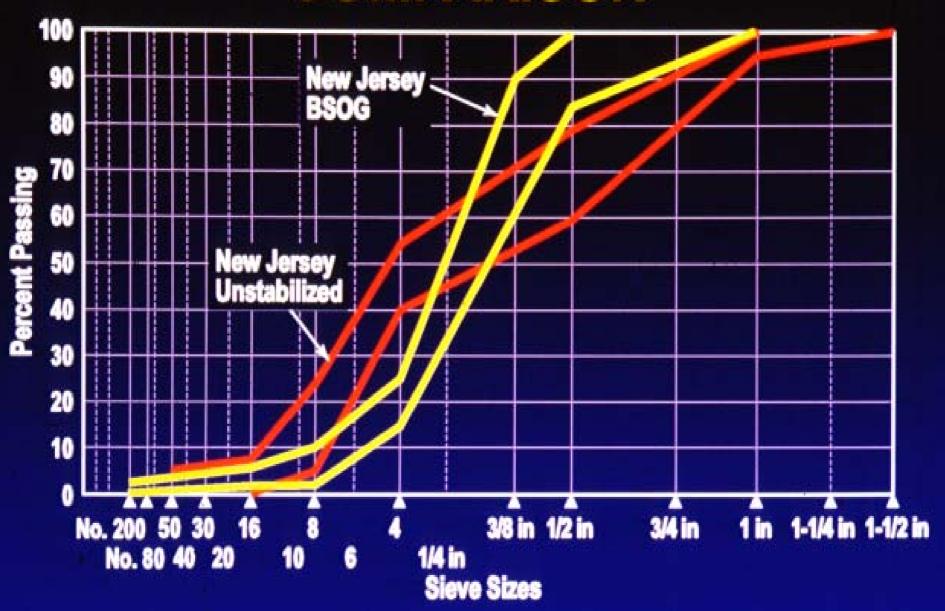
No. 200 *

* Add 2% mineral filler

PLOT OF NEW JERSEY - BSOG



COMPARISON



ASPHALT CONTENT

• 3 Percent

ANTI-STRIPPING AGENT

• FHWA strongly recommends the use of a Anti-Stripping agent

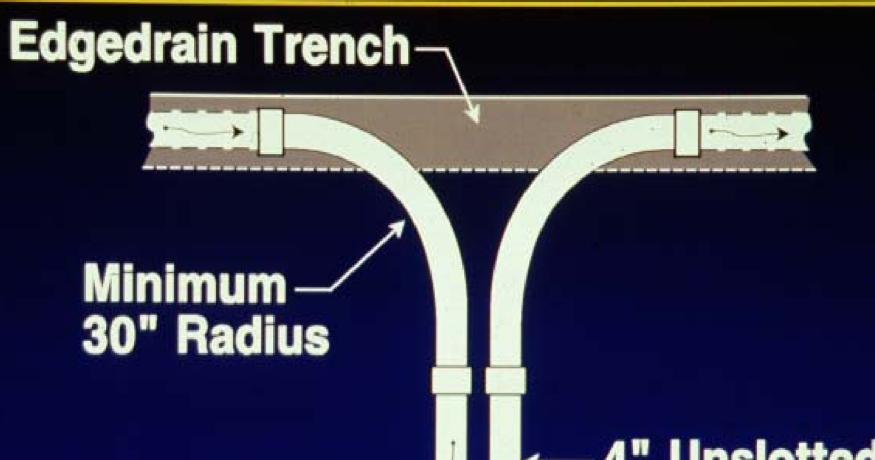
CEMENTED TREATED

Portland Cement 2 to 3 bags per cu. yd.

EDGEDRAINS

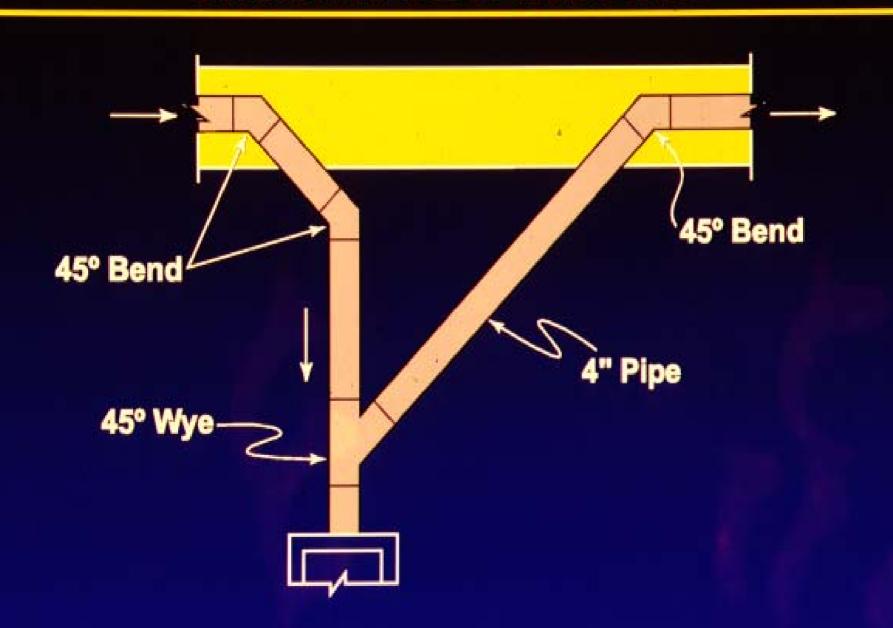
- Strong Rigid Pipe
- 100% Video Inspection

DUAL OUTLETS



— 4" Unslotted Plastic Pipe

VIRGINIA STANDARD



MAINTENANCE

- No Maintenance Commitment
- No Drainable Systems

MAINTENANCE

Modicum of Maintenance