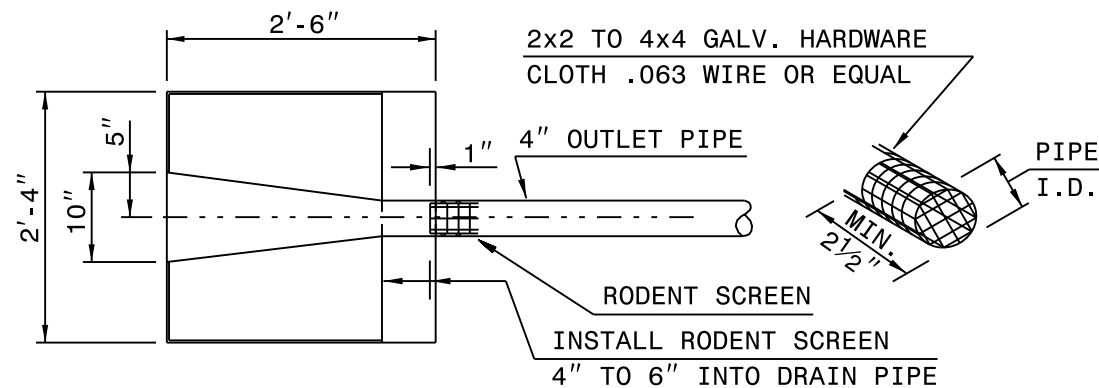
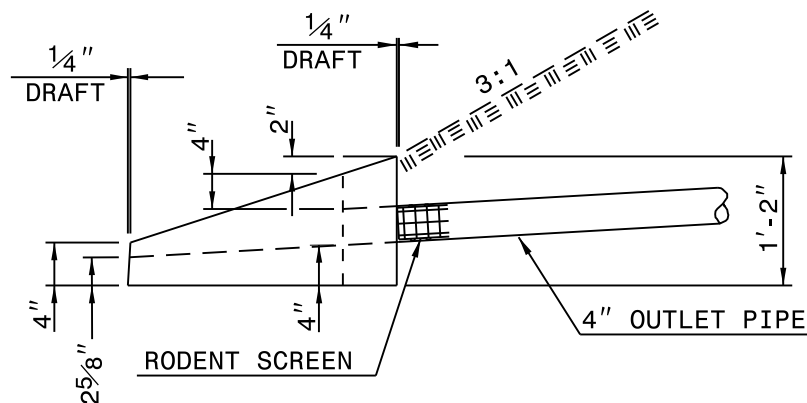


PLAN VIEW

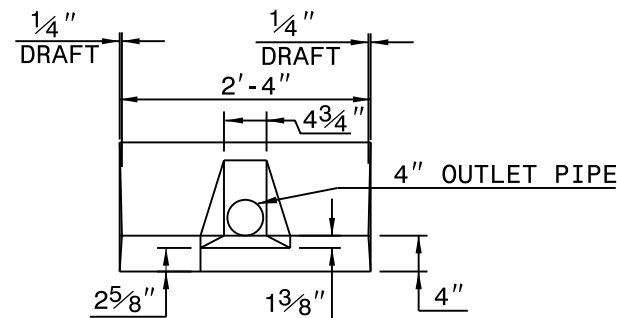


TOP VIEW

PARTIAL DETAIL OF RODENT SCREEN



ELEVATION VIEW



END ELEVATION VIEW

THE CONCRETE PAD CONSISTS OF 0.137 CUBIC YARDS OF CLASS "B" CONCRETE.

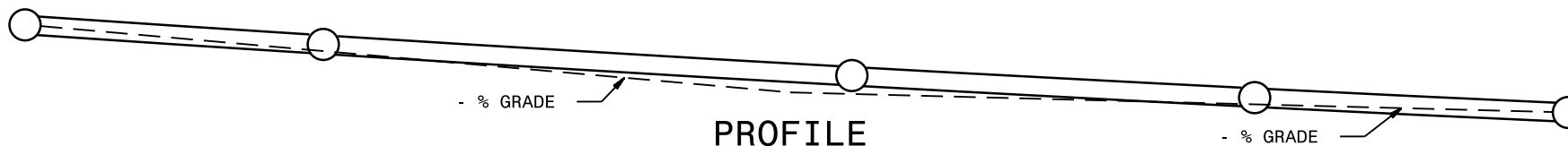
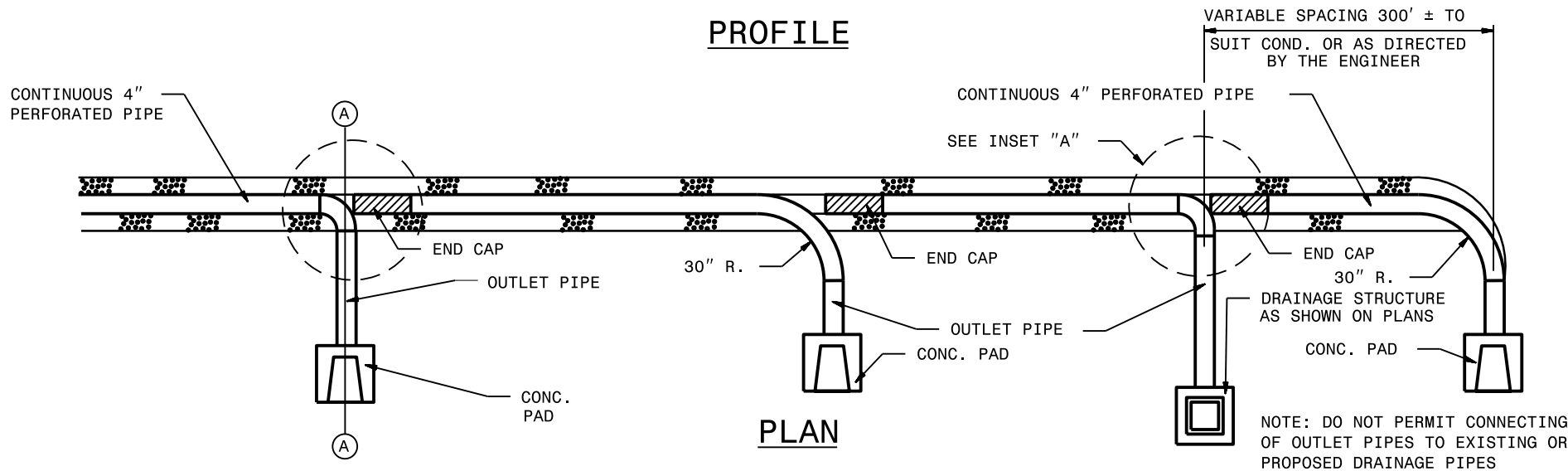
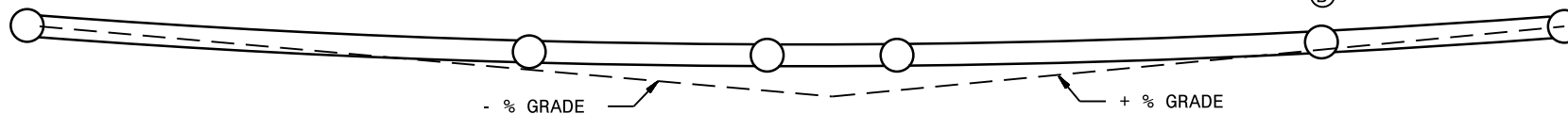
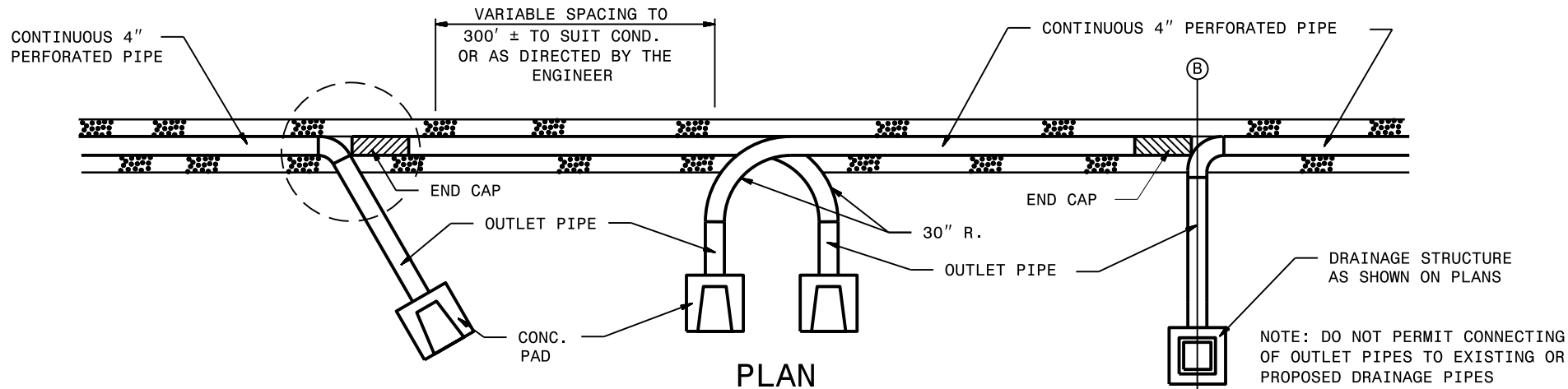
ROADWAY STANDARD DRAWING FOR
CONCRETE PADS
FOR SHOULDER DRAIN INSTALLATION

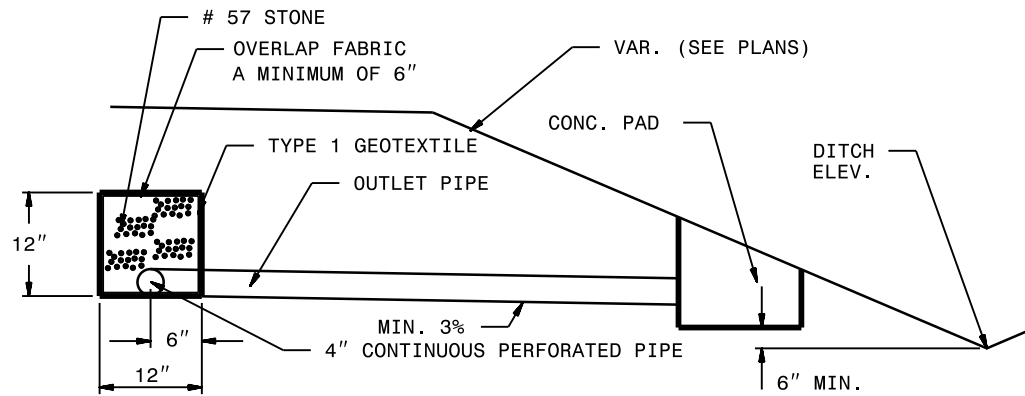
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-18

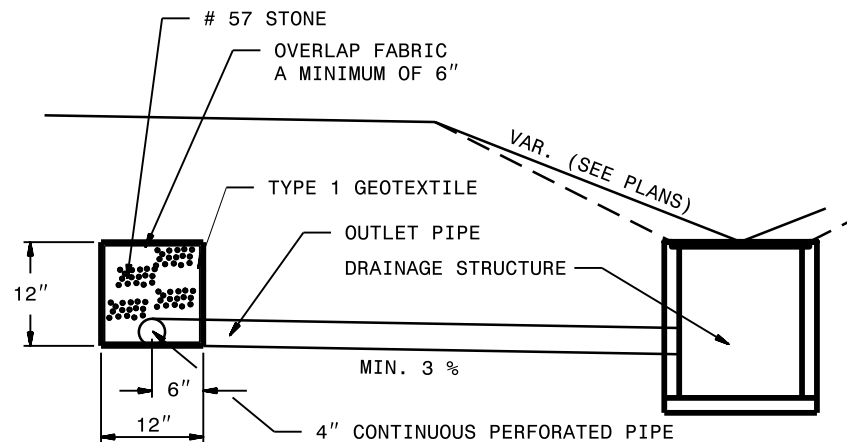
SHEET 1 OF 1

816.01

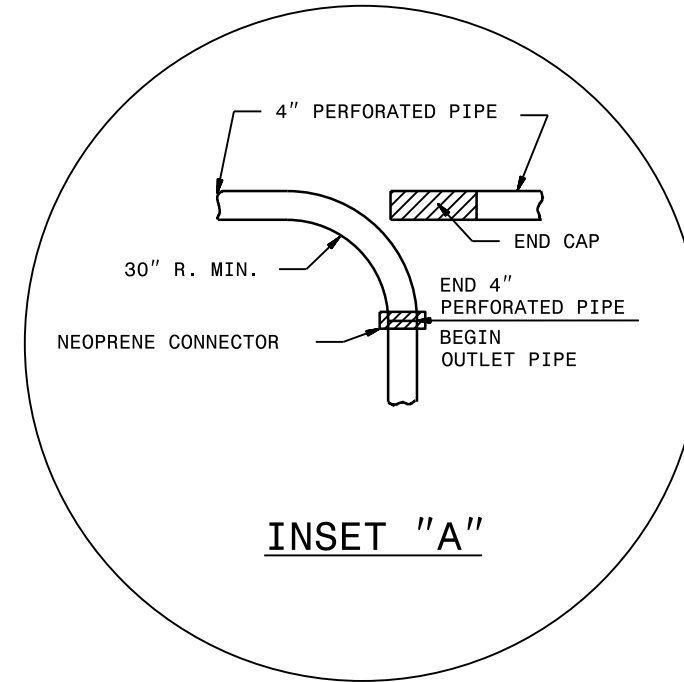




TYPICAL SECTION A-A



TYPICAL SECTION B-B

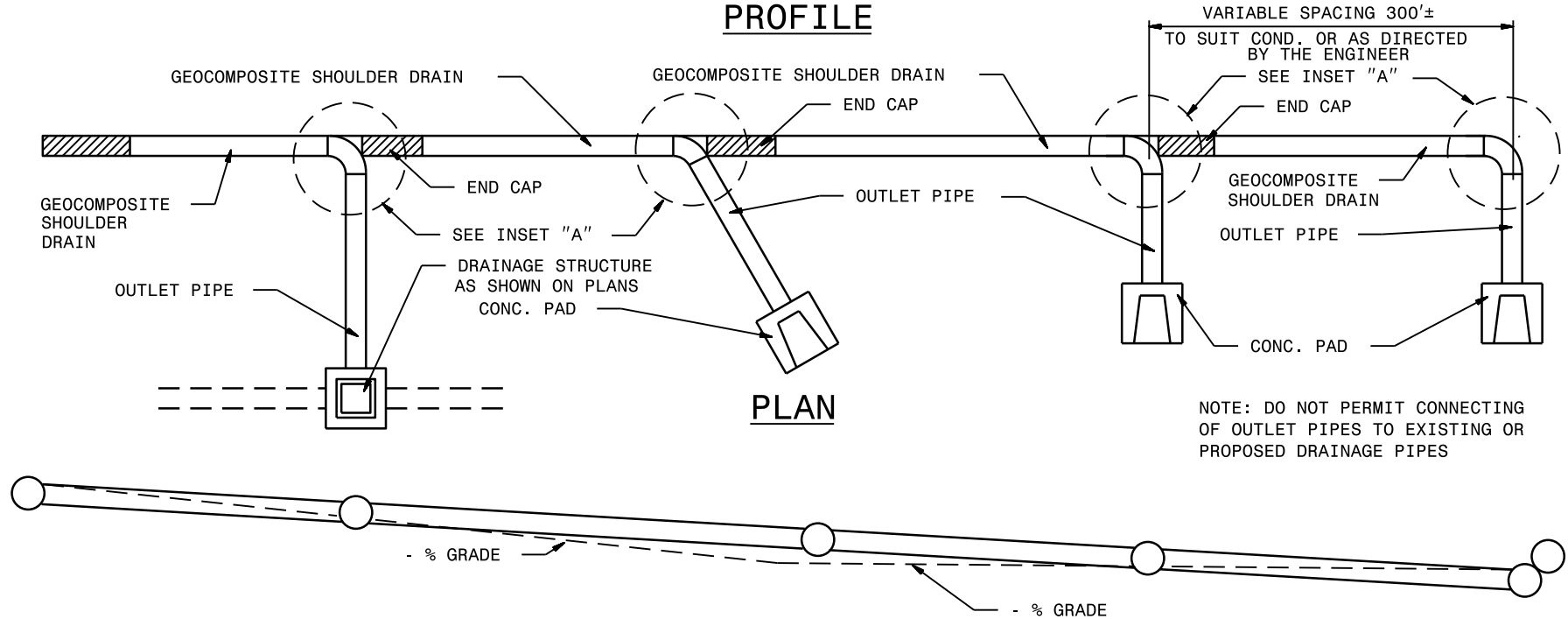
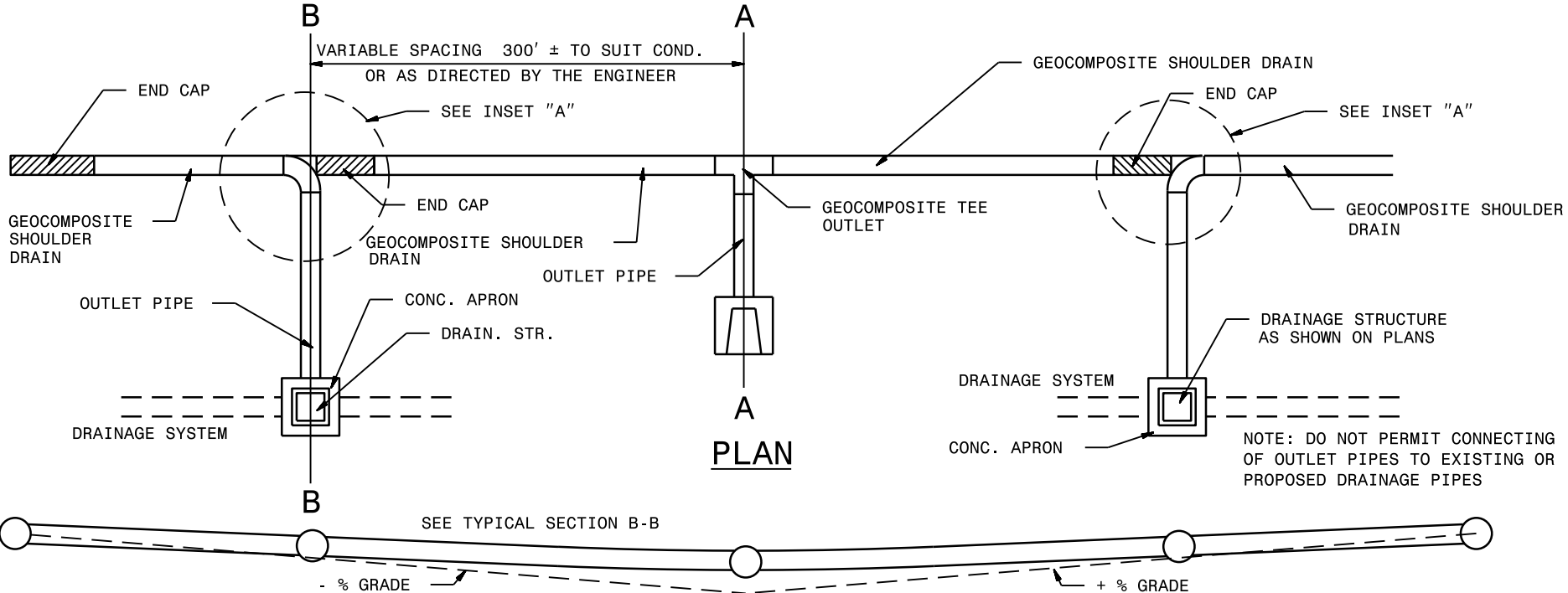


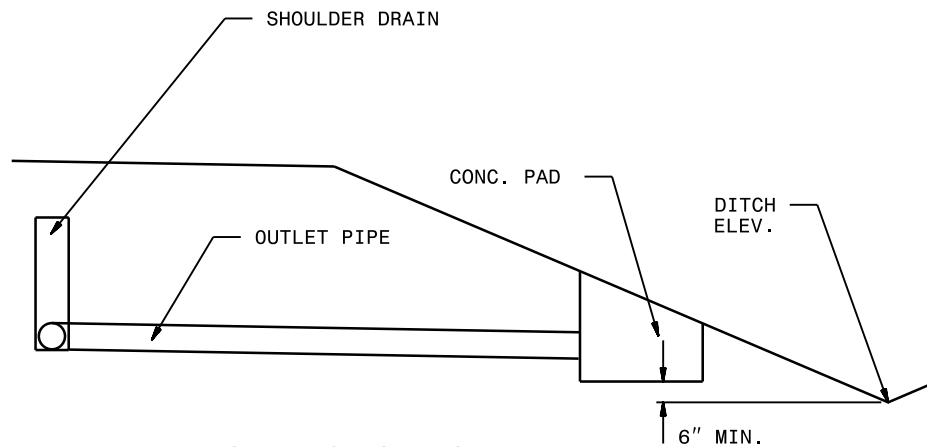
INSET "A"

GENERAL NOTES:

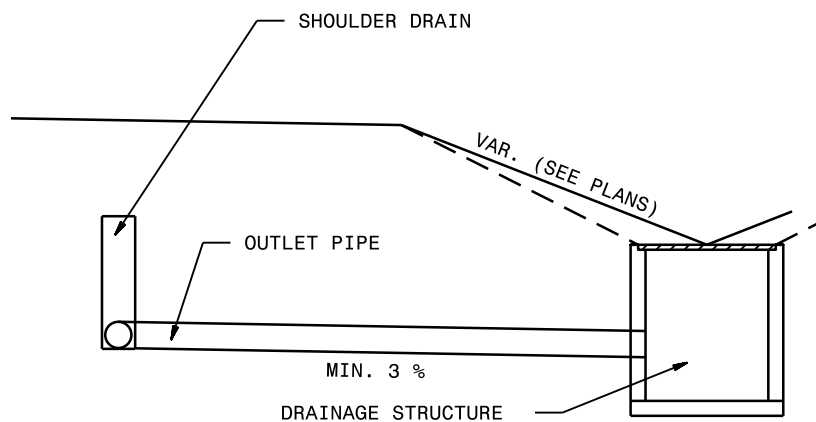
USE THE FOLLOWING CRITERIA AS A GUIDE FOR THE LOCATION, QUANTITY AND INSTALLATION OF AGGREGATE SHOULDER DRAIN.

- (1) INSTALL ON LOW SIDE OF PAVEMENT IN AREAS WITH GRADES FLATTER THAN 1% , AND SAG VERTICAL CURVES.
- (2) OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.
- (3) PLACE OUTLETS AT THE LOW POINTS AND SPACE AS SHOWN ON THE PLAN VIEW.
- (4) CONNECT OUTLET PIPE INTO DRAINAGE STUCTURE WHERE POSSIBLE. IF NOT CONNECTED TO DRAINAGE STRUCTURE, PROTECT END OF PIPE BY CONCRETE PAD. SEE DETAIL OF CONCRETE PAD.
- (5) OUTLET PIPE GRADE MIN. 3%.

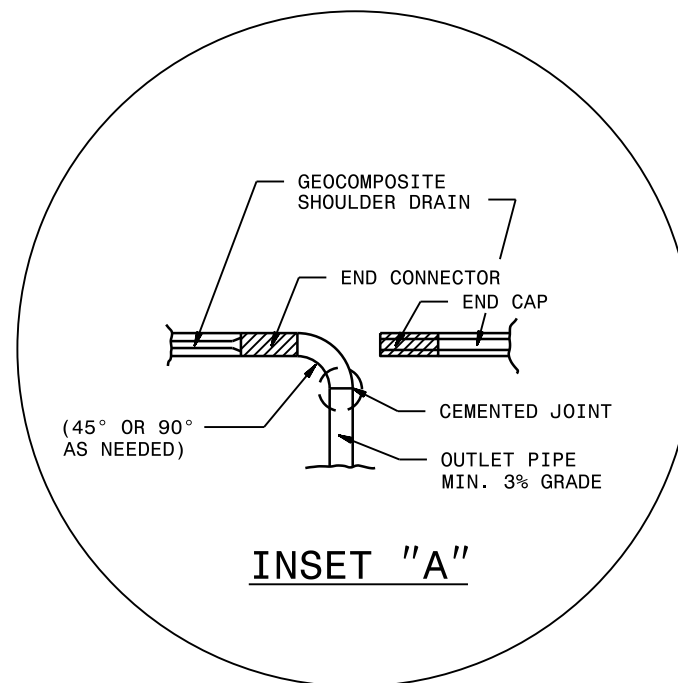




TYPICAL SECTION A-A



TYPICAL SECTION B-B

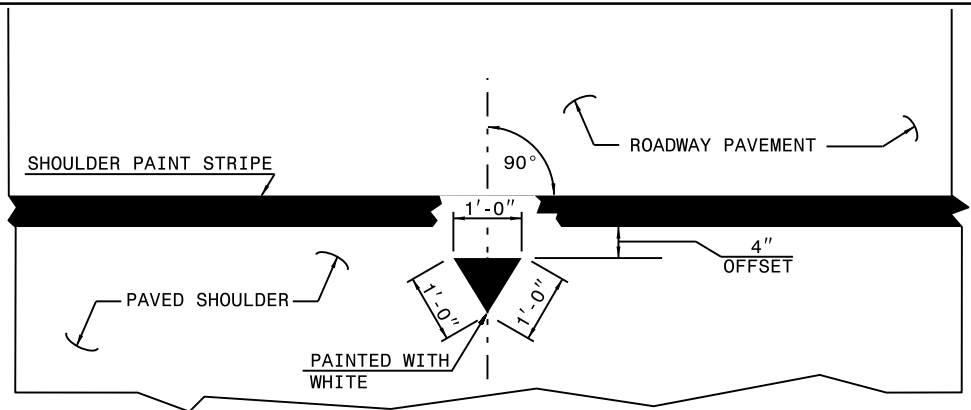


INSET "A"

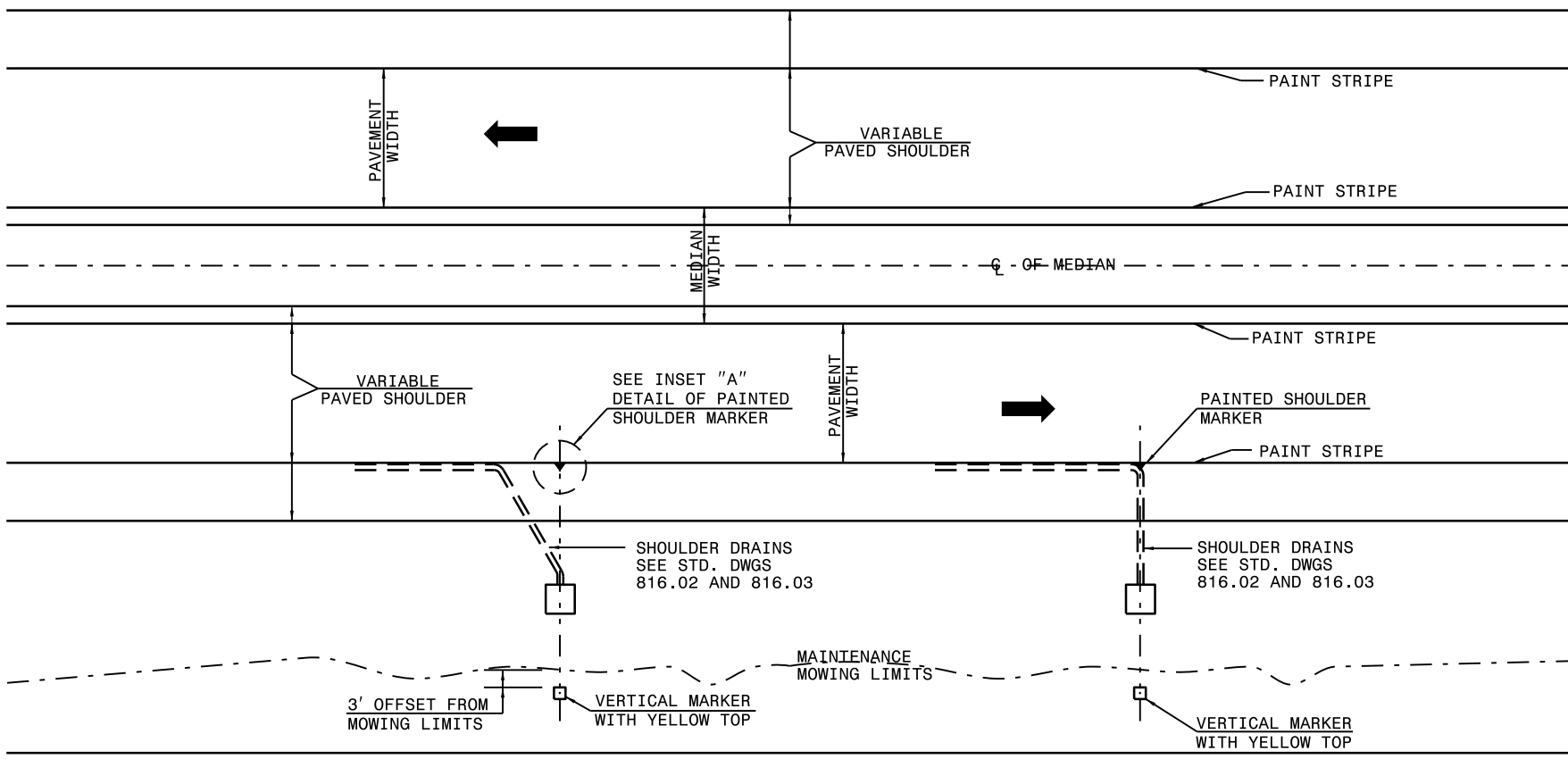
GENERAL NOTES:

USE THE FOLLOWING CRITERIA AS A GUIDE FOR THE LOCATION, QUANTITY AND INSTALLATION OF GEOCOMPOSITE SHOULDER DRAIN.

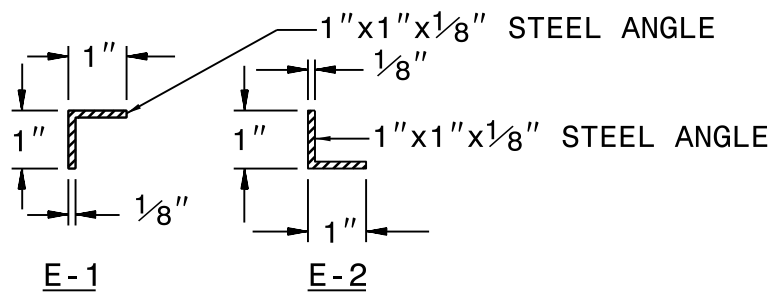
- (1) INSTALL ON LOW SIDE OF PAVEMENT IN AREAS WITH GRADES FLATTER THAN 1% ± AND SAG VERTICAL CURVES.
- (2) OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.
- (3) PLACE OUTLETS AT THE LOW POINTS AND SPACE AS SHOWN ON THE PLAN VIEW.
- (4) CONNECT OUTLET PIPE INTO DRAINAGE STRUCTURE WHERE POSSIBLE. IF NOT CONNECTED TO DRAINAGE STRUCTURE, PROTECT END OF PIPE BY CONCRETE PAD. SEE DETAIL OF CONCRETE PAD.
- (5) PROVIDE 4" SCH. 40 PVC PIPE FOR OUTLET.
- (6) OUTLET PIPE GRADE MIN. 3%.



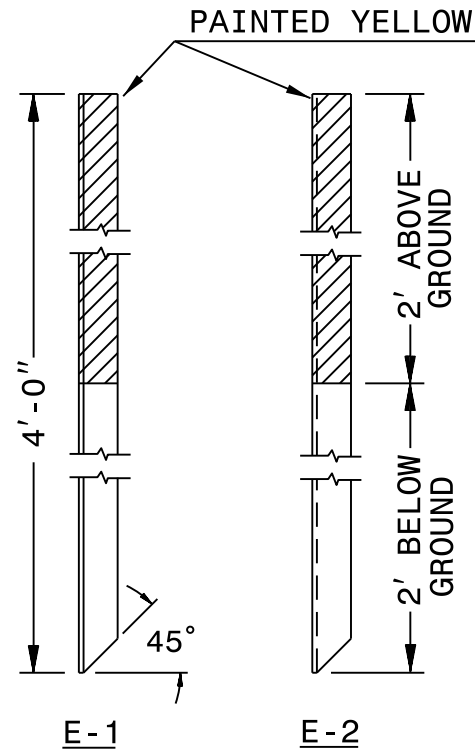
INSET "A"



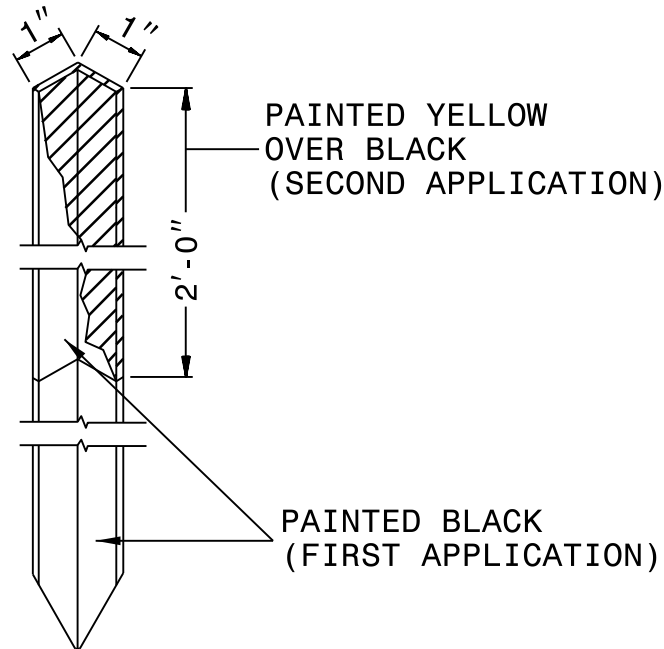
PAINTED SHOULDER AND VERTICAL MARKER



PLAN

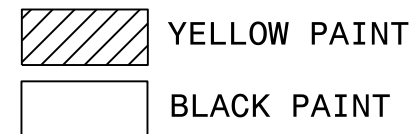


ELEVATION



ISOMETRIC VIEW

LEGEND



GENERAL NOTES:

USE A36 GRADE STEEL. USE FLAT BLACK PAINT AS FIRST APPLICATION.

USE YELLOW AS SECOND APPLICATION FOR THE TOP HALF OF THE MARKER.

USE EXTERIOR OIL BASE FOR ALL PAINT.

USE MARKERS FOR SUBSURFACE AND SHOULDER DRAIN CONCRETE PADS.

PLACE MARKERS FOR OUTLETS AT DRAINAGE STRUCTURES WHERE APPLICABLE.