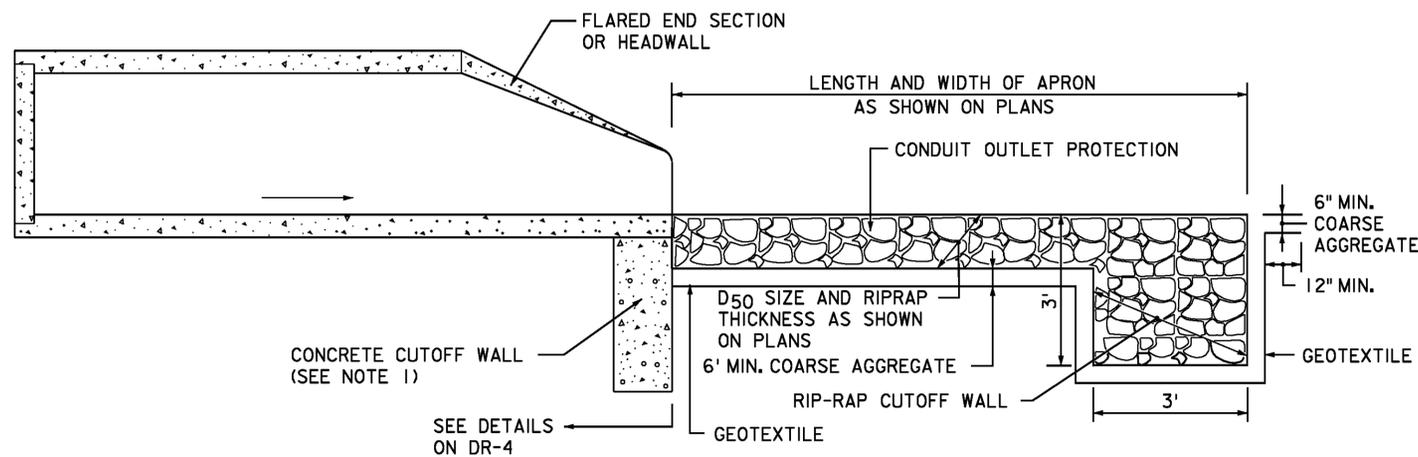


CONCRETE COLLAR
(FOR JOINING PROPOSED PIPE TO EXISTING PIPE)

NOTE:

COAT ALL SURFACES TO BE ENCASED IN CONCRETE COLLAR WITH APPROVED EPOXY BONDING COMPOUND. NO SEPARATE PAYMENT WILL BE MADE FOR THE CONCRETE COLLAR. THE COST OF THE CONCRETE COLLAR SHALL BE INCLUDED IN THE COST OF THE VARIOUS PIPE ITEMS ON THE PROJECT.



STORMWATER OUTFALL PROTECTION

NOTE:

1. A 1" THICK MORTAR BED AND A 6" DEEP LAYER OF COURSE AGGREGATE ARE REQUIRED WHEN A PRECAST CONCRETE CUTOFF WALL IS USED.

RIPRAP CHARACTERISTICS

PIPE SIZES (INCHES)	PAY ITEM	MEAN SIZE (D ₅₀) (INCHES)	PLACEMENT THICKNESS (1) (INCHES)	GRADATION (2)	
				% OF STONE BY WEIGHT	LIMITS OF STONE WEIGHT (LBS.)
12 TO 21	STONE GRADE C	2-4 1/2	9	50 35 15	25-10 10-5 5-1
24 TO 30	STONE GRADE D	6-7	15	50 35 15	35-15 15-7 7-1
36 TO 48	STONE GRADE E	10-15	24	50 35 15	200-75 75-35 35-5

(1) ASSUMES FILTER FABRIC BEDDING
(2) ASSUMES WEIGHT OF STONE = 165 LBS./CF.



NEW JERSEY TURNPIKE AUTHORITY

MISCELLANEOUS DETAILS

OFFICE OF THE CHIEF ENGINEER

2009 STANDARD
DRAWING

DR-8

App.	No.	DATE	REVISION
		04/09	ORIGINAL DRAWING

CONTRACT NO.

SHEET NO.

OF