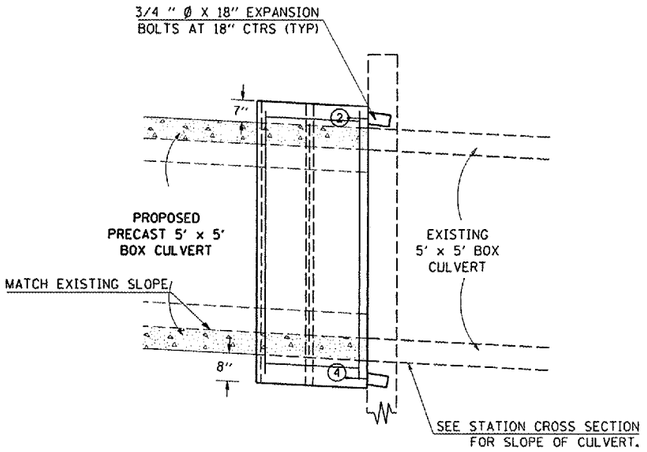
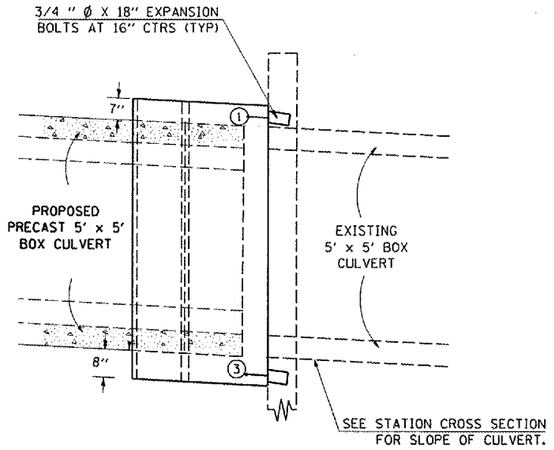
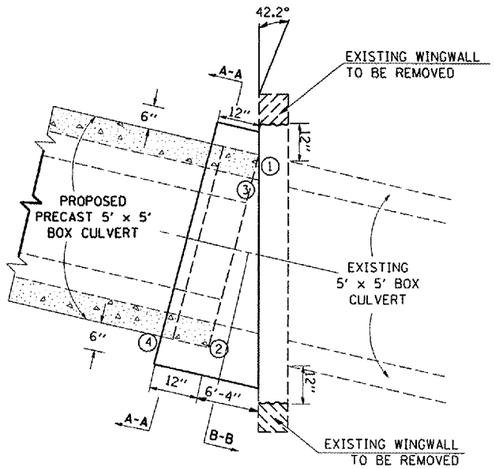
CONCRETE COLLAR FOR PRECAST BOX CULVERTS STA. 752+51 LT SIDE



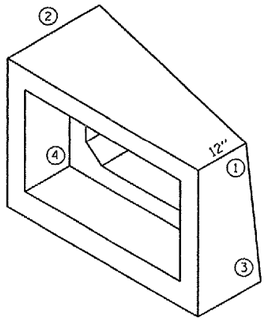
SIDE VIEW
DIMENSIONS SHOWN



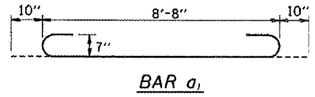
SIDE VIEW
DIMENSIONS SHOWN



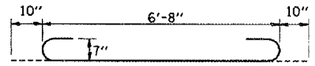
TOP VIEW
DIMENSIONS SHOWN



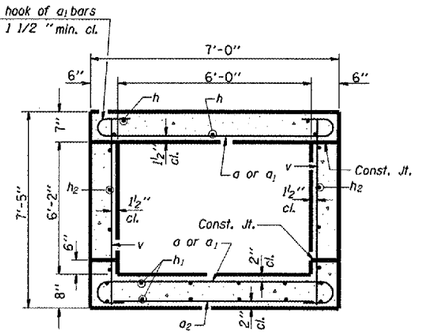
ISOMETRIC VIEW



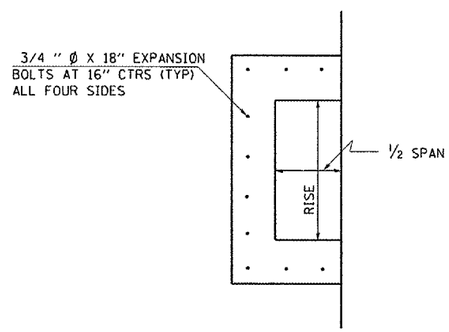
BAR a_1



BAR a



SECTION THRU BARREL

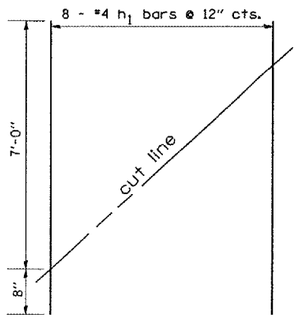


SECTION B-B

BILL OF MATERIAL

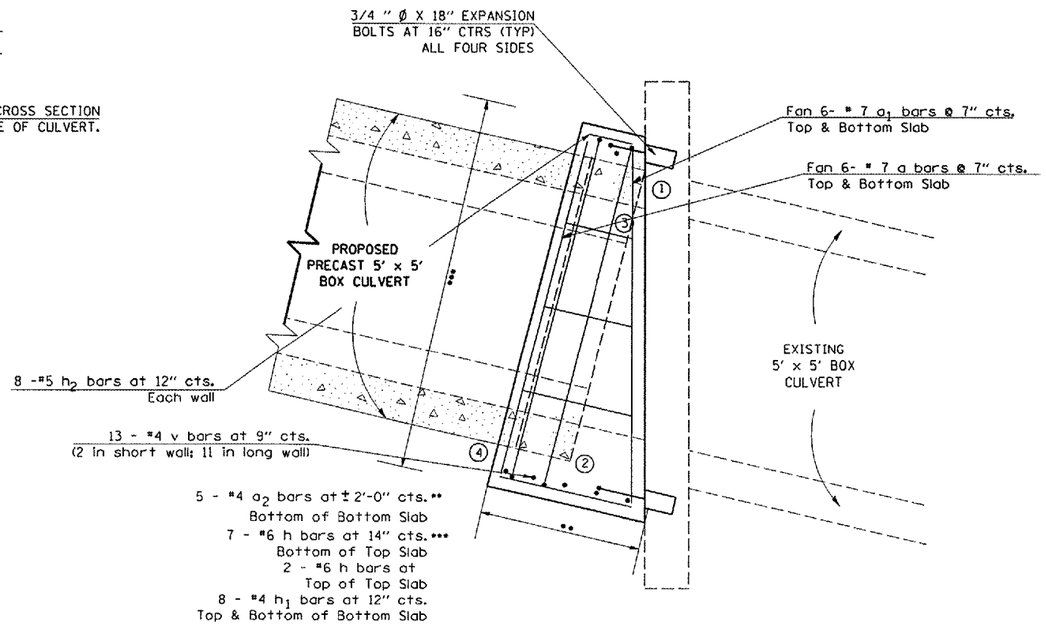
Bar	No.	Size	Length	Shape
a	12	#7	8'-4"	
a_1	12	#7	10'-4"	
a_2	5	#4	9'-0"	
h	9	#7	7'-0"	
h_1	8	#4	7'-8"	
h_2	8	#5	7'-8"	
v	13	#4	7'-1"	
Expansion Bolts ¾"			Each	18
Concrete Box Culverts			Cu. Yd.	4.82
Reinforcement Bars			Pound	697

Cut a_2, h, h_1, and h_2 bars in the field to fit.

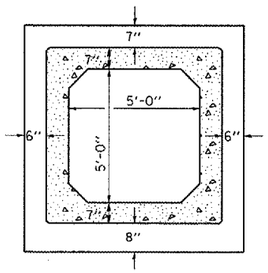


FIELD CUTTING DIAGRAM

Order h_1 bars full length. Cut as shown and use remainder of bars in opposite face.



TOP VIEW
REINFORCEMENT SHOWN



SECTION A-A

NOTES:

ANCHOR BOLTS, MEETING THE REQUIREMENTS OF ARTICLE 1006.09 OF THE STANDARD SPECIFICATIONS, SHALL EXTEND A MINIMUM OF 9 INCHES INTO THE NEW CONCRETE. EXPANSION SHIELDS SHALL PROVIDE A MINIMUM CERTIFIED PROOF LOAD OF 4080 POUNDS.

THE CONCRETE COLLAR SHALL NOT BE PAID FOR SEPARATELY WHEN CONSTRUCTED IN CONJUNCTION WITH PRECAST BOX CULVERTS, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PRECAST CONCRETE BOX CULVERTS. THIS PRICE SHALL INCLUDE THE EXPANSION BOLTS, CONCRETE, REINFORCEMENT BARS AND THE REMOVAL OF SUCH PORTIONS OF THE EXISTING HEADWALLS AND WINGWALLS AS MAY BE REQUIRED. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

OLD US 51 - LOCATION #1