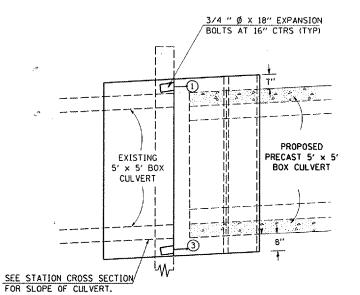
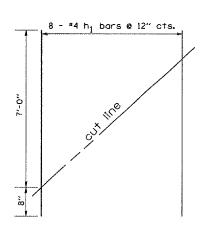


SIDE VIEW DIMENSIONS SHOWN



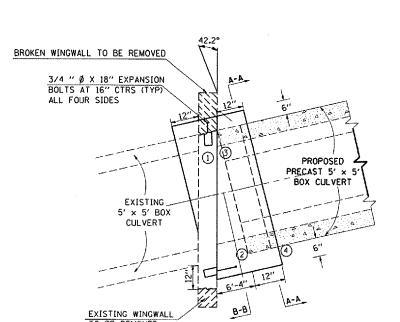
SIDE VIEW **DIMENSIONS SHOWN**



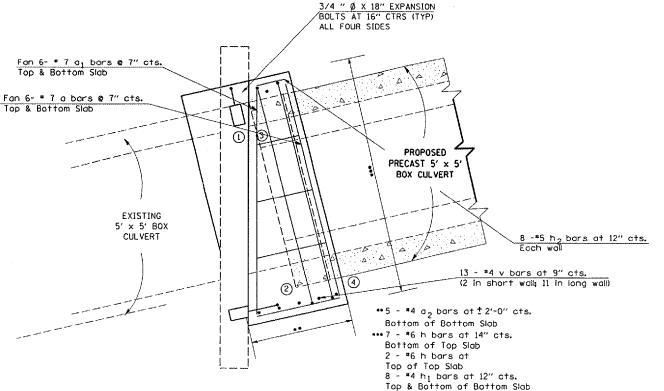
FIELD CUTTING DIAGRAM

Order h₁ bars full length. Cut as shown and use remainder of bars in opposite face.

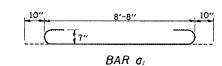
CONCRETE COLLAR FOR PRECAST BOX CULVERTS STA. 752+80 RT SIDE



TOP VIEW DIMENSIONS SHOWN

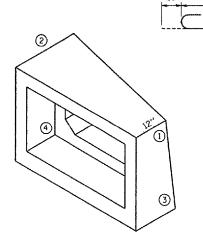


TOP VIEW
REINFORCEMENT SHOWN



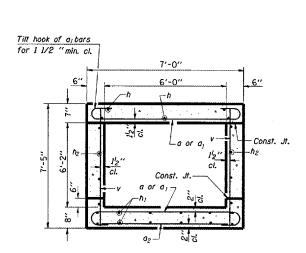
BAR a

VARIOUS ROUTES D-9 CONT. MAINT. FY 06-3 VARIOUS CO. **CONTRACT #98924** SHEET 30 OF 42

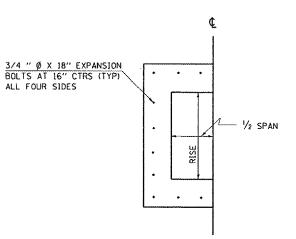


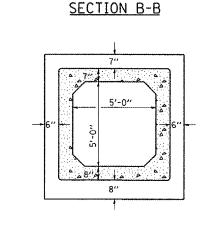
ISOMETRIC VIEW

ALL FOUR SIDES



SECTION THRU BARREL





SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	12	#7	8'-4"	
a_I	12	#7	10'-4"	
02	5	#4	9′-0"	
h	9	#7	7′-0"	
hj	8	#4	7′-8"	
ħ2	8	#5	7′-8"	
v	13	#4	7′-1"	
Expansion Botts 34"			Each	22
Concrete Box Culverts			Cu. Yd.	5.19
Reinforcement Bars			Pound	697

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

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.