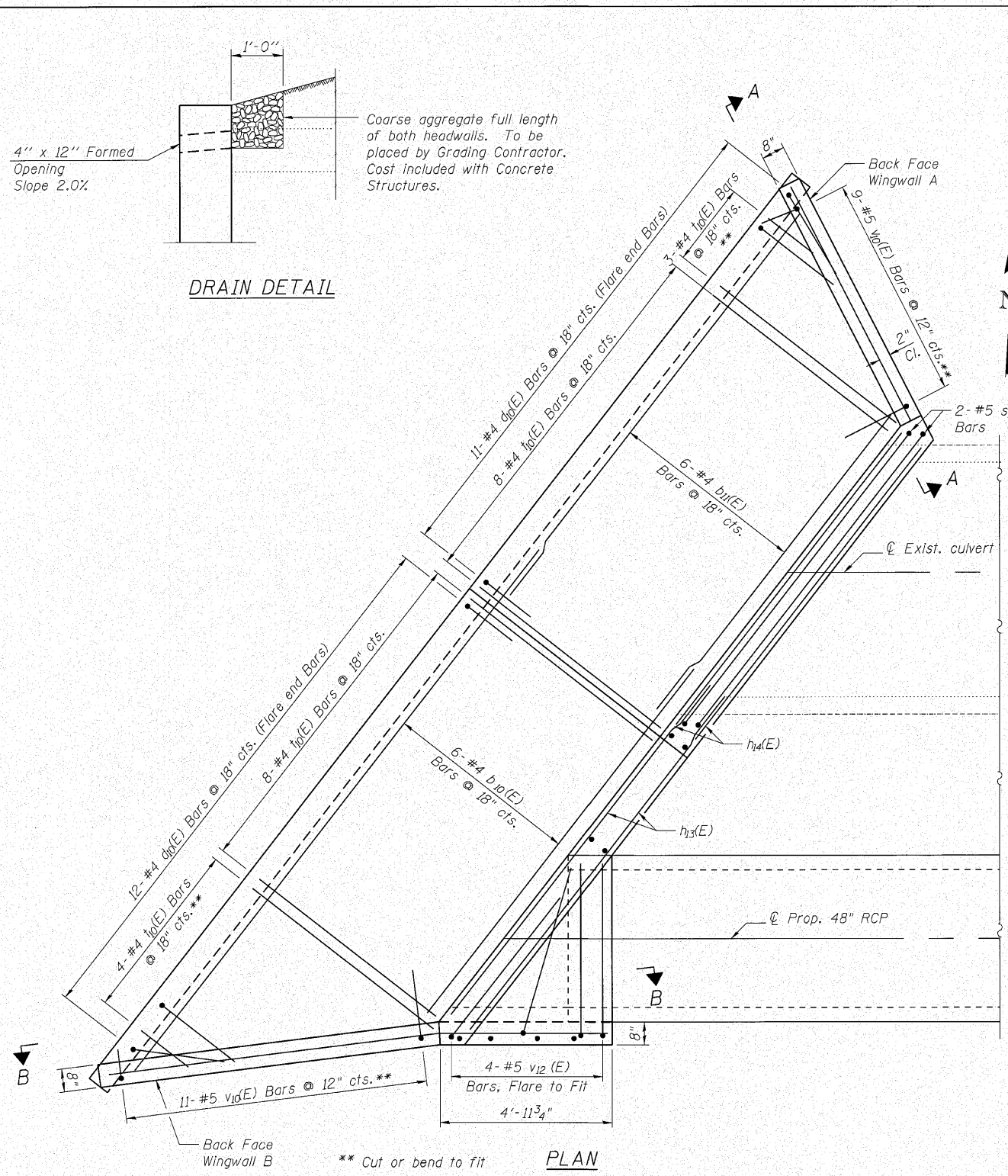
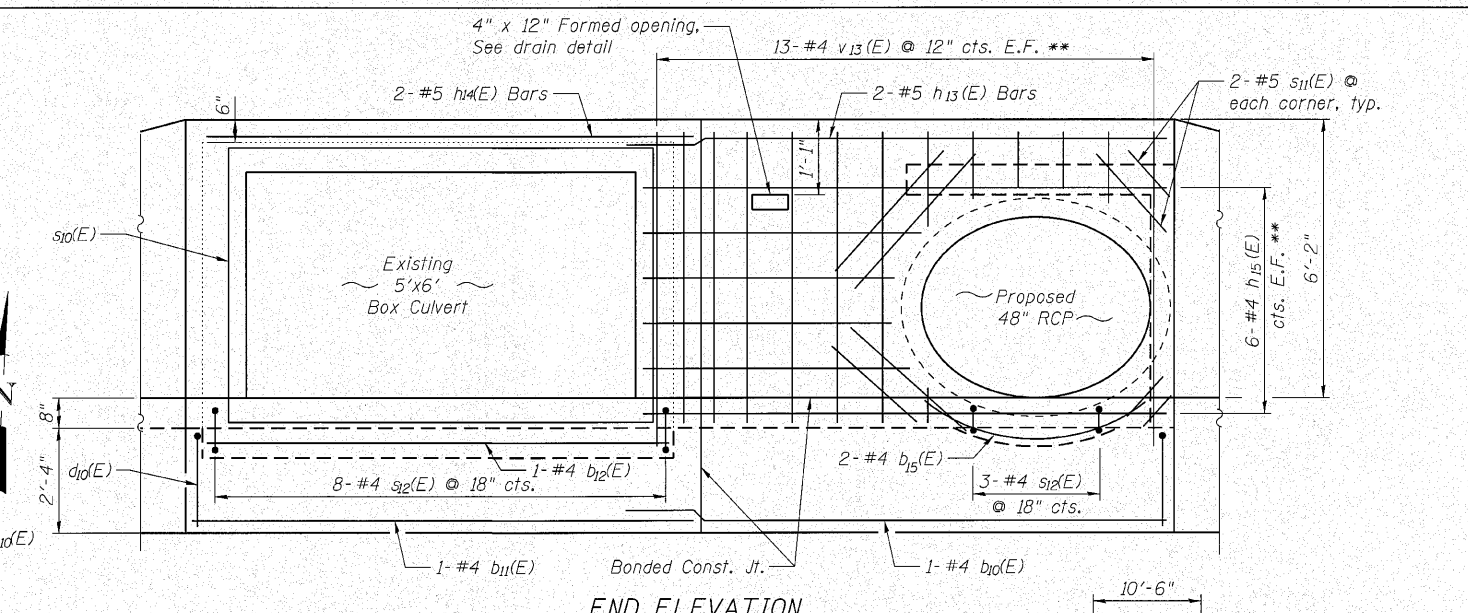


DRAIN DETAIL

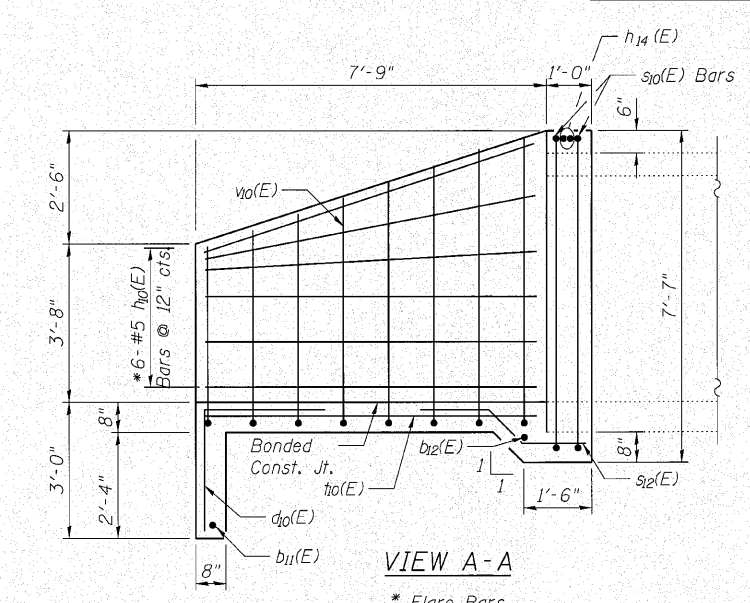
Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Structures.



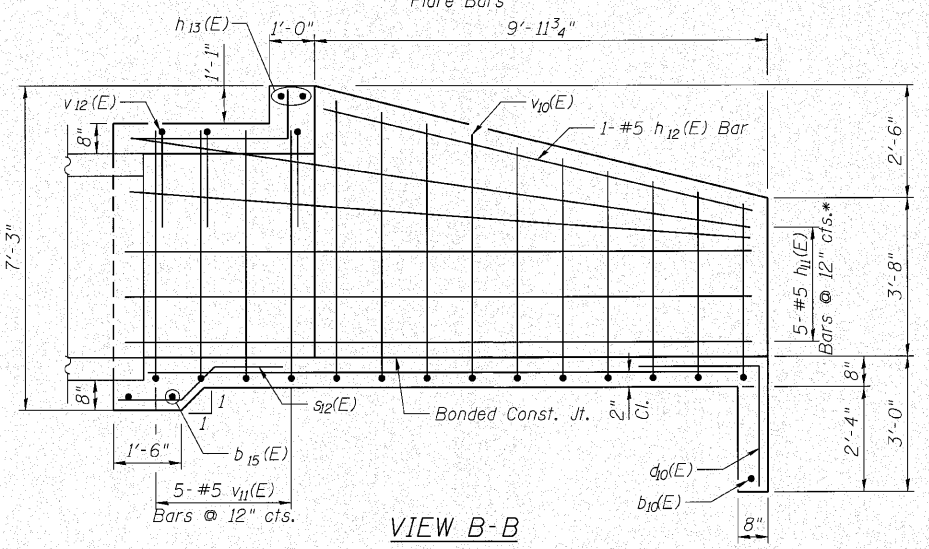
PLAN



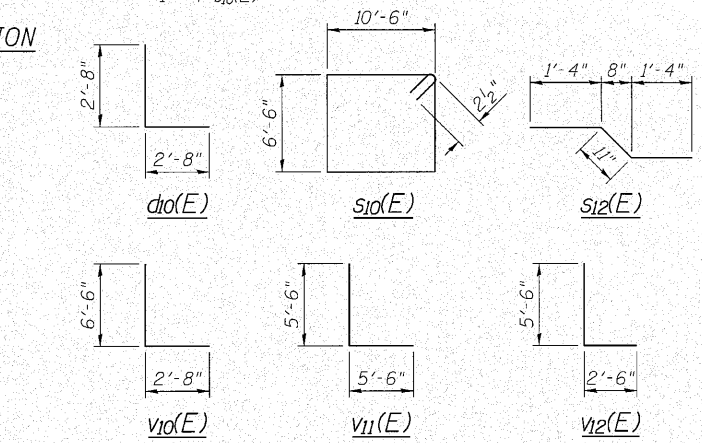
END ELEVATION



VIEW A-A



VIEW B-B



Minimum Lap Length
 #4 Bar = 2'-0"
 #5 Bar = 2'-6"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b10(E)	7	#4	20'-4"	—
b11(E)	7	#4	14'-1"	—
b12(E)	1	#4	11'-0"	—
b15(E)	2	#4	5'-0"	—
d10(E)	23	#4	5'-4"	L
h10(E)	6	#5	7'-6"	—
h11(E)	5	#5	13'-11"	—
h12(E)	1	#5	9'-10"	—
h13(E)	2	#5	12'-9"	—
h14(E)	2	#5	11'-1"	—
h15(E)	12	#4	11'-7"	—
s10(E)	2	#5	34'-5"	□
s11(E)	8	#5	4'-0"	—
s12(E)	11	#4	3'-7"	—
h10(E)	23	#4	6'-8"	—
v10(E)	20	#5	9'-2"	L
v11(E)	5	#5	11'-0"	L
v12(E)	4	#5	8'-0"	L
v13(E)	26	#4	6'-6"	—
Structure Excavation		Cu. Yd.	51	
Concrete Structures		Cu. Yd.	13.8	
Reinforcement Bars, Epoxy Coated		Pound	1,170	

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USER NAME = mthomas	DESIGNED - BWS	REVISED -
PLOT SCALE =	CHECKED - EKM	REVISED -
PLOT DATE = 10/27/2010	DRAWN - RD	REVISED -
	CHECKED - SCD	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WEST HEADWALL DETAILS
 HICKORY CREEK TRIBUTARY CULVERT**

SHEET NO. 2 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-5-Y	WILL	276	189
				CONTRACT NO. 60147
ILLINOIS FED. AID PROJECT				