TOTAL BILL OF MATERIAL-BOX CULVERT

1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1994) 1997 - 1997
UNIT	TOTAL
Cu Yd	352
Cu Yd	345
Sq Yd	355
Sq Yd	96
Sq Yd	96
Sq Yd	96
Each	1
Pound	52,690
Each	1.000
Cu Yd	233.0
	Cu Yd Cu Yd Sq Yd Sq Yd Sq Yd Sq Yd Each Pound Each

GENERAL NOTES

- At least 10'-0" of this cuivert barrel shall be poured monolithically with the wingwalls.
 Exposed edges shall be beveled ²/₄".
 Optional use of Precast Concrete Box Cuiverts is not allowed.
 Reinforcement Bars shall conform to the requirements of ASTM A706, Grade 60 (IL Modified). See Special Provision.
 For backfilling and embankment, see Standard Specifications and Roadway Plans.
 It shall be the responsibility of the Contractor to divert the stream flow and any storm sever flow during construction in order to keep the construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be Included with "Concrete Box Cuiverts".
 Contractor to field locate all utilities before starting construction and protect all utilities. Contractor to submit information regarding protecting utilities to the Engineer before starting construction.
 The pay item "Removal And Disposal Of Unsuitable Material" shall include the excavation of unsuitable material for a depth of 3'-1'z" (max.) below the structure for a width of approximately 45'-0" within the limits of the toe walls as shown on the plans. The actual amount shall be determined in the field by the Engineer.
 The pay item "Porous Granular Embankment, Special" shall include the placement of CA-1 and CA-7 below the structure for a width of 45'-0" within the the limits of the toe walls as shown on the plans. The actual amount shall be determined in the placement of CA-1 and CA-7 below the structure for a width of 45'-0" within the the limits of the toe walls as shown on the plans. The actual amount shall be determined in the field by the Engineer. detarmined in the field by the Engineer. F.F. denotes Front Face B.F. denotes Back Face E.F. denotes Each Face There will be no additional compensation should any reinforcement need to be cut or bent in the field. Construction Joints shall be bonded in accordance with Section 503.09 (b) of the Standard Specifications. The layout of the channel pavement may be varied in the field to suit ground conditions as directed by the Engineer.

- deremmed in m 10.) F.F. denotes Fro 11.) There will be no 12.) Construction Join 13.) The layout of th 14.) Minimum bar lap

Barrels: Bar Size Min. Lap Length Wingwalls: Bar Size Min. Lap L #4 I'-4" #4 I'-8" #5 I'-8" #5 2'-2 #6 2'-0" #6 2'-7" #7 2'-9" #7 3'-6"	
#5 1'-8" #5 2'-2 #6 2'-0" #6 2'-7'	ength
#6 2'-0" #6 2'-7'	
	t partat
47 0/0" 47 7/E	
+/ 2-3 +/ J-5	
#8 3'-8" #8 4'-6'	

#9 4'-7" #9 5'-9" 15.) Supplier of Articulated Block Revetment Mat to certify installation in accordance with manufacturer's recommendations.

STATION 273+80.00	
BUILT 200_ BY	
WOODFORD COUNTY	
F.A.S. RTE. 358	
SECTION 86-00075-00-AS	
LOADING HS20	
STR. NO. 102-5034	
	-

NAME PLATE See Standard 515001

BAR BENDING DIAGRAMS

Bar	0	b	Diagram
d	3'-6"	1'-9"	TI
dį	3'-0"	1'-9"	
v.	6'-4"	10"	0
V1	6'-10"	10"	
		-	

Bar	a	b	C	Diagram
a	40'-8"	8"	6"	>
02	13'-8"	11"	8"	
08	12'-6"	11"	8"	b a b
<i>a</i> 10	40'-0"	8"	6"	

Bar	a	b	C	Diagram
S	1'-3'2"	9"	4'2"	
]

Bar	a	b	C	d	Diagram
ħ4	12'-7"	3'-0"	1'-738"	2'-638"	
h5	10'-2"	7'-4"	$3' - 11^{3}_{8}$ "	6'-24"	-10
h6	10'-6"	3'-6"	1'-10'2"	2'-11'2"	
hg	7'-11"	3'-0"	2'-638"	1'-738"	da
hg	6'-7"	6'-10"	5′-9′ ₈ "	3'-8"	│ ••• • ───
h10	7'-3"	3'-0"	2'-638"	1'-738"	

Bar	a	b	C	d	6	f	Diagram
s1	11"	9"	412"	1'-3'2"	4 ¹ 2"	4 ¹ 2"	b
a data					a		
			, in the second s				
							I AN NO
					1.1		
	1						· · · · · · · · · · · · · · · · · · ·



<i>.</i>		CONTRAC	T NO.	89477
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
358	86-00075-00-AS	WOODFORD	74	36
STA.	1.000	TO STA.		
FED. RC	DAD DIST. NO. ILLIN	OIS FED. AID	PROJECT	

SHEET NO. C2

OF 9 SHEETS

	4			
Bar	No.	Size	Length	Shape
a	63	#6	42'-0"	\square
a1	62	#6	40'-8"	
02	168	#8	15'-6"	()
03	165	#8	13'-8"	
<i>a4</i>	63	#6	40'-8"	
<i>a</i> 5	72	#6	20'-6"	
06	96	#4	13'-8"	· · · · ·
07	9	#4	15'-0"	
08	15	#8	14'-4"	()
<i>a</i> 9	15	#8	15'-0"	
<i>a</i> 10	22	#6	41'-4"	()
a]]	22	#6	41'-8"	
a12	11	#6	22'-7"	
a13	22	#6	40'-0"	
014	6	#5	43'-10"	
d	56	#4	5'-3"	
dj	26	#4	4'-9"	
h	168	#5	36'-2"	
h1	252	#5	24'-8"	
h2	60	#5	24'-8"	·
h3	8	#5	45'-0"	
h4	12	#6	15'-7"	
h5	6	#4	17'-6"	
h6	10	#6	14'-0"	
h7	14	#4	11'-5"	
hB	12	#6	10'-11"	
hg	6	#4	13'-5"	
hĮO	10	#6	10'-3"	
hţį	14	#4	7'-5"	
			<u> </u>	
S	45	#4	4'-10"	
sj	45	#4	4'-8"	
	<u>-</u>			
V	154	#5	7'-2"	
VI	142	#5	7'-8"	
V2	16	#4	17'-6"	· · · · · · · · · · · · · · · · · · ·

BAR LIST

NOTE: Work this sheet with Sheets C1 and C3-C7.

Ľ	REVISIONS		
ł	NAME	DATE	BILL OF MATERIAL, GENERAL NOTES
ł			AND DETAILS
$\left \right $			
ł	nin in the second se		F.A.S. 358 (C.H. 1) OVER UNNAMED TRIBUTARY TO RICHLAND CREEK
ŀ			SECTION 86-00075-00-AS
ľ			WOODFORD COUNTY
			STATION 273+80.00 STRUCTURE NO. 102-5034
+			DESIGNED BY: BJR DRAWN BY: DJM
ŀ			DATE: 04/08/09 CHECKED BY: MSW/JML